R B
Kennedy
(13)

(13)

12-8-31 Palinurus Spina-Christi Hill BMQCP 475 = P. australis Gaertn Coste I 273 = P. australis Rv 3 Bon 64 Fr. Firenze (roadside near San Felice a Ema) Shrub. Fr (exactly like ill Bon v Coste) only collected. Lvs v spines (if any) not observed. The 3 nutlets rattle in the dry indehiscent fr.

12-8-31 Cupressus sempervirens L. BMQCP 92, Coste III 283 = C. fastigiata DC. Bon 379 Fr. Firenze. Lvs. old cones. Lvs 1 mm long (ie 1/25 in.) very minutely denticulate. Trees all of columnar form. But spreading forms seen at La Mortola

12-12-31 Coriaria myrtifolia L. Coste I 270, Bon 63. Fr. Menton to Castellar. Conspicuous with green foliage and black fr. in heavy sprays

12-14-31 Notes on La Mortola. See separate sheets.

12-17-31 Quercus Suber L. Coste III 237, Bon 286, BMQCP 231. No flor fr. Cfd. with Q. Ilex. Diff in bark very obvious to eye. Lvs larger, relatively broader, with fewer lateral veins.

12-17-31 Teucrium fruticans L. Cat. III-137, Bon 257, BMJCP651. Fl. St. Raphaël.

Mont Vinaigre, E altered

or ? G. cinerea DC.

12-20-31 ? Genista pilosa L. Coste I. 301, Bon 71, BuH 118 Fl. Mt. Vinaigre. Lvs mostly fallen when studied. Lvs almost sessile, 7mm x 2mm, acute. Petioles arise from knotty protuberance on st. (dense tuft of hairs at protuberance & st.) on each side of lf. 2 smaller similar lvs. Difficult to decide whether (1) lf really 3-foliate; or (2) lf 1-foliate with a stipule; or (3) lf 1-foliate without stipules and pedicels bracted at very base. When studied 8 weeks after collection impos. to tell if these members existed only when pedicels had been. Calyx as desc. Corolla for G. pilosa L. & G. cinerea DC., the 2 upper teeth broad & as long as tube, the lower lip only a trifle longer with 3 short teeth. Fl. 1 cm overall, standard hairy outside & often deeper than the hairy keel. Stks, lvs beneath, & calyx all silky. Stamens monodelphous; Style curved ~. Standard horizontal.

12-20-31 ? Linaria striata DC. Coste III. 19, Bon 233 Fl. Mt. Vinaigre Fl. to desc. (Coste) as far as pos. to see (a.t.s) Seeds exactly as ill. No lower verticillate lvs as collected. Lvs very numerous, very narrow, ± 1½ in long. Infl. much branched. Ripe capsules greenish-whitish, 4mm diam. Seeds 2mm at most. St. stiffly upright.

12-20-31 ? Helianthemum Tuberaria Mill. Coste I 148 Bon 36, Mont Vinaigre, Fr. Only bvs (a.f.s.) rare there in thick rosette at base. Pedicels ascending. Sepals 3, with 2 small linear bracts. Capsule 3-valved with placenta down center of each.

12-20-31 ? Senecio Cineraria DC. Coste II 305, Bon 163 Fr. Mt. Vinaigre. Ident. as parasporos (a.f.s.)

12-20-31 ? Erica arborea L. Coste II 313, Bon 202. Bud. Mt. Vinaigre. Young branches covered with short white feathered hairs.

12-20-31 Calluna vulgaris Salisb. Coste II 509, Bon 201 etc (See 5-29-31) Fr. Mt. Vinaigre

12-20-31 Asplenium Adiantum-nigrum L. Coste # 692, Bon 379 Sp. Mt. Vinaigre.

12-20-31 Arbutus Unedo L. Coste II 506, Bon 201 etc (See 3-26, 10-15 & 31-30) Fl & fr. Mt. Vinaigre.

Notes: 12-14-31. La Mortola, Italy. Plants labelled but authors not always cited.

Acacia podalyriaefolia, Queensland [Seems same as bot in Geneva 11-4-31. See BMJ CP. 428]

Acacia cultriformis - - - S. Wales. [Similar to above but lvs. falcate. See BMJ CP 429]

Acacia dealbata - - - Tasmania [Lvs finely bi-pinnate. Often seen elsewhere. See B.M.J. C.P. A. decurrens Willd var dealbata F. Muell]

Araucaria Cunninghamii

Berberis yunnan [Lvs broad; fr black so glaucous as to be almost white]

Canarina campanula [Vine. Fls pale orange 6-pointed bell. Calyx 6 segments longer than corolla but reflexed]

Casuarina stricta - - - Aust. [Needles 12-24 in.

See B.M.J.C.P. 22]

Cotoneaster microphylla [Fr. glaucous—not shining scarlet. Lvs. shining above, pub. white beneath, small. Fr. solitary] See B.M.J.C.P. 374 and 9-26-31]

Cotyledon macranthus. [Fleshy lvs. red edge]

Cupressus lusitanica [Very heavily fruited See B.M.J.C.P. 92]

Dahlia imperialis - - - - Mex.

Ephedra altissima - - - Atlas Mts. [Hanging thick over trees. Fls. very small]

Diplopappus filiformis - - - Cape [Bushy composite. Heads small, aster-like. Rays lavender]

Echium fastuosum [Shrub. Lvs near tips] [See B.M.J.C.P. 636.

12-14-31 La Mortola. Cont.

Ficus rubiginosa - - - Aust. [Lvs brown pub. beneath, otherwise suggests F. elastica See BM/CP 238]

Gazania splendens [Composite hort. Rays orange with black & white spot at base]

Genista monosperma [Papilionaceae small white pea fls in elender fl'ers etc See BM/CP 4-31

Habaea laurina - - - Aus. [See BM/CP 242

Kleinia neriifolia [Composite, succulent, shrubby

Ligustrum japonicum [Lvs suggest lilac but more acute at base Lvs thick & evergreen See BM/CP 594]

Laurus nobilis. [Fr. black. See BM/CP 295

Nandina domestica [Large 3-pinnate lf. Fr. red in compound panicle. See B.M. C.P. 289]

Nolina longifolia - - - Mex - - - Liliaceae
[Tufts of long narrow yucca-like lvs.]

Oreopanax dactylifolium - - - Araliaceae
[Inf. bud now rusty gold]

Pandorea australis. [Vine. See B.M. C.P. 688

Phyllostachys nigra, Munro [Bamboo-like grass with dark stalks. See B.M. C.P. 102]

Pinus pinaster. [Bark in big chocolate like slats. Cones large See B.M. C.P. 82

Pithecoctenium muricatum - - - Mexico
[Woody vine. Fr. larger than an egg & muricate]

Salvia Grahami, Benth - - Mex. [May be
same as Génova, Mallorca.

12-14-31 La Mortola Cont.

Salvia semiatrata Zucc - - - Mex.
[Calyx rose. Sclos. Corolla blue with lower lip very dark velvety inside. Fl. glaud. pub.]

Salvia sessei. Dent - - - New Spain
[Bush to 5 ft. Fl. suggests S. splendens but larger & showier.]

Senecio petasites. [Bud. See BMJCP 784.]

Yucca elephantipes - - - - Cen. America

12-24-31 Marseilles, Parc Borély Bot. Garden
Chimonanthus fragrans - - - Jap. [Shrub, almost lfless now; thickly covered with fl buds, partly open suggestive of apple blossoms. Petals yellow, tinged red at base.]

Phillyrea media L. [Lvs ovate-oval 1/2-3/4 in wide. See BMJCP 593 & Coste.

Abelia floribunda Dcne. -- Mex [Fr. sessile, small achene crowned with 5 linear ciliate lobes of calyx. Fr in groups at ends of branches making fuzzy look] [See BM 7 CP 728

Arbutus Andrachne -- Med. [12 ft. Stout. Bark peeling in curling flakes. Like heavy ft. very like A. Unedo.

Araujia albens G.Don -- Brazil -- Asclepiades [Vine with 2 valved, egg-shaped fr 4 in long, conspicuous among the much smaller ho See BM 7 CP. 608]

Abelia chinensis R.Br. [Fr. like A. floribunda Bark in heavy corky ridges, stem cracked horizontally into sectional rings. See BM 7 CP. 728.

Erica mediterranea [Drowing ft.

Symphoricarpus racemosus [Fr. red & crowded. See BM 7 CP. 722 for poss 7 mistake in label.]

The Herbarium, Royal Botanic Gardens
Kew. Surrey, England.
Mr. Horwood "concerns himself about plants
from the Mediterranean" says Mrs. C.M. Kennedy

Señor y Señora Colom, Ptº Margall 39, Sóller
are the friends of Mrs. Sweeny who Nov 2, 1932
took Mrs. C.M. Kennedy to see the Bianor
Herbarium at the Colegio de los Hermanos
de la Doctrina Cristiana. [R.B.K. went
with Mrs. C.M.K to visit herbarium Nov 2, 1932]

Mandragora
Bianor's specimen is labeled
Son Togores (o Molino Togores) Son Sardiña
Mrs. C.M.K on Nov 4, 1932 writes "We drove down the
Palma-Valldemosa to within 4K of Palma & turned
to where the new water reservoirs - - - there
we found the Mill of Son Togores & just beside &
beyond it is the house of Son Togores. Standing
in the gate way of the house & looking down
the road straight in front of one, you see on
the right hand a cow house and on the left
opposite the cow house 3 olive trees" - the
only ones visible but no mandragora.
"There is a Brotherhood there so it is likely to
be the right place. There are 2 other Son Togores

both nearer to Valldemosa but neither of them has a molino"

Estret de Son Gallart is the local name of the Puig Gros-Vera gorge visited with Mrs. C.M.K June 3, 1932. Leave car on the Valldemosa-Deya Rd at house marked on military maps Can Mado Pella.

Flora of Mallorca, Lucie Chodat, Geneva
Pinchat, Felon 1, Geneva.

1-28-32 Coronilla juncea L. Kn II 111, Bar 148, Bon 90, Coste I 406. (See 3-4-26-30) Fl. One spec. only in old pit between Son Vida and Calvia Rd. St. not "compressibles v striés" (Coste); pedicels as long as calyx; claws of petals enough longer than calyx to show light bet. lower v upper petals. Lower lvs. as ill (Coste) but lvs subtending fls. of 3-foliate lfts.

1-28-32? Lathyrus Clymenum DC. Kn II 123, Bar 144, Bon 88, Coste I 396 Infl. a fr. Field near newest clay pit bet. Son Vida v Calvia Rd. St 9 in long. Lvs all simple, sessile v so strongly decurrent that base of one reaches to face of the one below. Lvs terminated by 1-3 tendrils. Stipules none.

1-29-32 Anthyllis Cytisoides L. Kn II 87, Bar 111, Bon 93, Coste I 317 Fl. Back rd from Genova to Calvia Rd. Stamens almost partly or quite diadelphous (As remembered this was observed 1930-31, but not put in notes). Young shoots from plant cut to ground have terminal lfts of lvs 30x25 mm. i.e. longer v much broader than in normal specimens.

1-29-32 Anemone coronaria L. Kn I 480, Bar 8, Bon 6, Coste I 42 Bmq CP. 375. Fl (blue) Calvia Rd. Stamens very dark blue.

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1-31-32 Passerina velutina Pourr Ku II 312 = IV. Pl 43 = Thymelea — Meia Bas 406 Fl. Arenal. L.v.s. 10×5 mm. velvety both sides, the vessel nerve showing only in cross section; two firm but not coriaceous petiole tube 4 mm long, limb 3 mm

1-31-32 ? Fumaria agraria Lagas Ku II 10 (Bar) Bon 14, Costa I 68 Fl & unripe fr. Field bet. Can Pastilla & Coll den Rabasa. Infl when all fls. out about 2 in long, open. Fls 15 mm overall, the lower ones strongly red tinged tips, the upper ones more nearly white except for dark tips of the 2 inner petals. Bracts (suffused pink with white edges) as long as pedicels of all but somewhat shorter than pedicels of unripe fr. Sepals (pink with white edges) acute, dentate at base especially on lower edge 4 mm long, narrower than corolla but as wide or wider than the enlarged end of pedicel in fl. Sepals persist on unripe fr when they are narrower than pedicel. In the open fl. the lower petal hangs down noticeably away from the 2 inner petals. Largest fr. now 4 mm high × 3.5 mm wide, slightly flattened with edges outlined by a pale, def. pointed at apex, nowise winged. But note that lower petal fl is 14 mm at base & 3+ mm at tips, each wing being more than 1 mm wide (this seems contrary to Coste & Bon) Cliff with F. officinalis ? 2-2-32

1-31-32 Fumaria micrantha Lag Kn II 10, Bar 267, B&H 3 3, B&H 3ll II 32, Coste I 69 = F. densiflora Bon 14. Fl v unipaf. with abov. As desc. 2-25-31 but corolla 6-8 mm (usually 6) overall. But note that lower petal is 1 mm at base and at tip with wings narrow (this is contrary to Coste, Bar v B&H 3ll II) The closely fruited, short racemes v relatively large sepals accord to molar ident. aucc. Cf with F. officinalis L. 2-2-32.

1-31-32 Lamium amplexicaule L. (see 2-18-30 v 1-22-31 v 9-4-31) Fl v fa. With abov. Note Calyx v fa. as desc 9-4-31.

(add)
1-31-32 f. Papaver pinnatifidum Moris Kn II 5, Bar Bon 18, Coste I 61 Fl. With abov. Lower lvs pinnate, upper lvs pinnatifid like ~~ill Coste~~ bottom part ill. Coste (none like Coste ill of P. dubium). Stigmas 5 on deals without def. lobes def. overlap. Anthers (petals falling) yellow. Ovary tapers gradually to base as in ill. Coste. (Could species of 2-14 v 25-30 have been this?) Ovary glabrous. Filaments filiform. Petals scarlet dark at very base.

2-3-32 Fumaria officinalis L. Kn II 9, Bar 28, Bon 14, B&H 22, 3ll II 33, Coste I 68, H 418 Fl v unipaf (to of fruit) Fig 1-31-32) Corolla 6-8 mm. Lower petal ± 1 mm at base and 1-1.5 at tip, the wings being slightly wider than in

F. mexicanthia ♂ 1-31 but def. narrower than in ? F. agraria 31-31.

2-2-32 ? Cestrum nocturnum L. B.M. ♂ C.P. 661 Fl. ♂ ♀. Calle de la Salud. Gl. with same species Sup. sta. & (more no. of fl. in fr.) studied 3-10-30 in fr. Plant trained against wall for support, glabrous, strong. Lvs. 4 × 1½ in., oblong-ovate, acute (not long-tapering) rounded at broadish base on distinct petiole ½ in. long, entire, both sides of same smooth, yellowish green. Fl. axillary & terminal panicles. Calyx ⅜ × 4 mm. long with 5 short triangular divisions. Corolla tubular, almost 2 cm. long × 1 cm. wide at mouth; tube slender, enlarging slightly at throat. Corolla greenish, no fragrance (but in 1930 tenant ♂ Sup. sta. & sp. of ♂ fragrance at night) Corolla lobes 5, not reflexed, about 3 mm. high, edges somewhat involute. Stamens 5, attached to tube, alt. with lobes, each filament with small tooth on inside just below point of attachment. Style 1, reaching to mouth of corolla; stigma capitate. Ovary superior. Fr. a white berry, rather oblong about 1 cm. high, when ripe (the one containing only 1 rough brown seed, but immature fr. show many 2 celled with 2-4 (poss. more) ovules in each cell on axile placentae. Corolla lobes valvate in bud. Calyx articulated with the short pedicel.

2-4-32? Hippocrepis ciliata Willd (see 3-29 & 4-3-30) Fl. Col. by Mrs. King, place unknown. Diff from desc. in that lfts sometimes to 17 and peduncle (in only spec in full fl) is longer than lf i.e. lf 3½ cm & peduncle 5½ cm. Otherwise as desc 3-29-30. Fl looks like H. Seems only poss in Bec. [But see ? H. balearica Willd 3 31-32

3-5-32 ? Medicago hispida Gaertn forma denticulata Koch III 74 for 8 = (vrine) M. pentacycla DC. Bar 116 = M. lappacea Desr Coste 336. BVH 111 which perhaps = M. lappacea Lam Bm 80. Fl v advanced fr. Establishment on wall at parada north of the "Beer 3-corners". Plant decumbent with stout pubescence, to 8 cm, grooved on one side (making 2 edges) somewhat twisted. Stipules deeply cut. Lfts largest the terminal ones to 16x13 mm), glabrous, denticulate above middle. Largest fr 8 mm diam (not counting spines) 3 spines hooked 1.5-2.5 mm long i.e. rather longer than space between. Fr a spiraled clock-wise in 4-5 coils which do not seem lax except in very young fr. Fls 3-4 on peduncles always shorter than petioles or lvs. Pedicels shorter than calyx tube. Calyx lobes somewhat longer than tube. Corolla wings longer than keel. Peduncles sometimes aristate, sometimes not. Vaucher Coste 320. Can't be sure if "épines collonnées ou canaliculées à la base" tho the groove near edge of fr. does seem to show on one side of base of spines and young pods seem "faisant saillie" etc rather than "restant dans le fond" etc. See 3-26-30 and 3-28 1

"B" Prof. collected same place is similar but all green & puberulent. Too advanced fr. rotting.

2-7-32 Erica multiflora L. Kn II, Bar 298, Bon 202, Coste II 512 Fl west of Cas Catalá. Note: dif from diac. Coste in that corolla is shorter (4mm) and calyx & tendy. less than ½ corolla. Anthers cells hardly separated at tip.

2-7-32 Helianthemum Fumana Mill Kn II 308 = Fumana Spachii Gr & Gd Bar 57, Bon 86, Coste I 152 Fl. west of Cas Catalá. Dif from diac. Coste in that branches puberulent on upper parts can hardly be called glandulose, upper lvs not greatly shorter than those below.

2-7-32 Sinapis arvensis L. Kn II 244, Bar 27, Bon 21, Coste I 74 = Brassica Sinapis Visiani Bvh 39 = B. arvensis Kty A 428 Fl vernipae fr. Common in fields Porto-Pi — Portals. Pods glabrous. Fls bright yellow. Petals 1 cm high when open. Fl 10-13 mm diam. Nerves of valves not prominent (a. t. s.) but below on beak (Bon)

2-11-32 Erodium cicutarium L'Her (See 12-10-32) Fl vernipae fr. Son Dural, luncheon palace. Lvs very blue-ish (Coste)

3-11-32 Lithospermum arvense L. Knth 306, Bar 322 Bon 222, Coste II 589, 1685. Fl v unripe fr. Establiments on way to Son Sureal. Whole plant covered with short but stiff hairs upwardly appressed, even on outside of corolla. Corolla slightly longer than calyx, a prominent up- and down-inward bulge (pubescent) nearly closing throat. Corolla tube dark blueish below and with a transverse ring at very base. Anthers (in 2 flowers examined) sessile near base of tube.

600A

2-11-32 Papaver pinnatifidum. Moris (See 1-31-32) Fl v young fr. Anthers very dep. yellow. ~~Best Establiments Son Sureal~~. Med in M. Stutts garden Son Serra.

2-11-32 A ? Salvia clandestina L. Bar 364, Coste III 102 Fl. Establiments - Son Sureal. Lvs smooth beneath, ~~on least~~ not v tending towards shining or at least not the gray pimply rugose char of "B." [Note this is just the reverse of Serra. Bar.] glabrous. St. glabrous at base, microscopically puberulent above (looks glabrous to the eye) v glandular-pub. in infl. St. lvs like all Coste but rather less deeply cut and lowest lvs less so. Corolla 15mm (base to tip of upper lip). Deep purple lip blue. Compressed v perhaps "courbée en faux". Lower lip white-blue with blue lines. Calyx 8mm long. Verticelles quite compact effect - the lowest node not over 7mm.

Upper lip of calyx with 3 very small teeth at tip

B.
2-11-32 ? Salvia verbenacea L. Kuth 341 = S. verbenaca L. Bar 364, Bon 250, B&H 357, Costa III. 102, B.M. of C.P. 6389, H 708 Fl. with abortive near by. Lvs dull & pimply-rugose, with laxish nerves bifid at sides. St. shaggy laxly upto infl, above in infl. glandl-pub. as in A. Lvs much like the less deeply cut ones of A. Corolla 11 mm (base to tip of upper lip) blue. Upper lip less compressed and less curved than in A. Calyx 8 mm. long. Verticils distinctly separate—lowest node now 15 mm. Upper lip of corolla toothed as in A. perhaps slightly more definitely.

2-11-32 Veronica hederaefolia L. (See 3-4-30) Fl & adv. fr. Establimento - San Jual.

[???]
2-11-32 Erucastrum incanum Koch Kuth 17 = Hirschfeldia adpressa Moench Bar 31, Bon 21 = Brassica adpressa Boiss B&H 40 = Sinapis incana L. Costa I. 75 Fl & unripe fr. Establimento - San Jual - San Rafaïa (Pirlepat Hamatta just east of San Rafaïa. General look of Brassica nigra Koch (as known in U.S.A.) (See B&H). Plant about 5 in high with several stems spreading from base & these with spreading branches. Lvs mostly at base; only a few very small, almost sessile

2-11-32

almost sessile rnes on branches. St. & lvs more or less rough hairy, not "velue-blanchâtre" (Coste) Fls. bright-yellow, 8mm high in tufts at ends of elongated infl. Pedicels (in fl) about 3mm and slightly enlarged at apex (Bon), (in fr.) hardly longer, thick. Largest fr (a.t.s.) 28mm. [Note # 428 B. nigra "pods 1.5-1.8 cm long"] Beaks tapering & squarish with the 8 lines mentioned by (Bai), about 1 cm long, with unripe seed near its base (Now showing no enlarged ball-like seed in middle). Pedicels ascending, but pods appressed to axis, thus more or less twisted & curved (Bon) [9-25-34 Specimen of Sinapis arvensis (valves of 3-nerved) with fr shorter & more nearly appressed than usual under R.B.K. suspect the 2-11-32 plant may also have been S. arvensis]

2-17-32

Iridaceae Cult. Fl brought by Mrs King from garden in Bonanova. No lvs & no scape on specimen. Specimen 3 inches consists of 2 spathes with 1 fl & 1 bud in the upper. Spathe 2 in high to apex curving slightly forward in bract shape. Filaments form tube; anthers opp. the 3 div. of style. Style with 3 flattened (petaloid) but short divisions (no higher than stamens) conspicuously fimbriate on upper edge. Perianth divisions horizontal the 3 outer somewhat larger. Fl 1½ in (perhaps more) across, mottled brownish purple & white, the edges more nearly brown, and beautifully crisped & curled. Not found in B & M, G & M nor B's Hortus but suggestive of Ferraria Kikx

British Garden Flora p 494 & 498. But pericarp has no tube, the divisions being separate forming a bowl at base and broadest in middle and acute at apex. Anthers brown-purple. Tips of style fringe yellow.
x Or more likely ~~thirtieth~~ fls. 1 to each sheath, since this bud ~~has~~ has a sheath (now undeveloped) of its own.

2-19-32 Sedum altissimum Poir. Knt. 42, Bar. 182, Bon. 111, Coste II. 118. Bud. Bellver. This is same plant desc. 2-14, 10-28 & 11-19-30. Three bud stems of 4 petals, not in whorls as ill (Coste.) probably because so much ahead of season. Petals & stamens 5-7, Carpels 3-4. Filaments enlarged at base but absolutely glabrous. Petals pale greenish-yellowish sometimes with reddish line down back.

2-23-32 ? Adonis annua L. var dentata Kuche. Kn. I 496 = A. microcarpa DC. Bar. 566 Fl. Genova. Carpels too young for the char. that Bardesc. (See 3-4-30

2-23-32 Erisymbrium erysimoides Desf. Knt. 21, Bar. 34 Fl. unripe fr. Genova sheets. (See 3-14, 12-10-30) Cf. with S. Irio. Longest pod now 3.8 cm. Pedicels never more than 3 mm. Note young pods quickly horizontal & do not overtop fls as in S. Irio. Style broadest at tip (thus diff from 12-08

601 On hill Calle Bellavista on way to Coasta.

2-25-32? Parietaria officinalis L. Kn I 422, Bon 284, Bot 414, Coste III 247 Fl. Terreno roadside. Bot note: Plants lobbed like ill (Coste) P. lusitanica L. Plant 5 in high & diffusely branched. Leaves ill Coste for P. l.) never more than 13 X 11 mm and mostly 10 or less mm wide. But stems thicker than "filiformes". Glomerules not markedly branched with about 5 fls. Perhaps this is the forma humilis Kn I 422. P. lusitanica L. ident by Kew Kn I 422, Bar 425, Bot 284, Coste III 247

602

2-26-32? Lathyrus Clymenum L. Kn II 122, Bar 143, Bon 88, Coste I 396 Fl. On wall by Mrs. Nellis's land near west end. Only one plant seen. Stem. lower simple leaves exstipulate, 2 mm wide X 2.5-5 cm long. Pedunculo 1-fld (Bar). Calyx lobes shorter than tube, not spreading. Corolla 2 x 2 cm. Standard a beautiful soft maroon and wings contrastingly blue but style spatulate at tip, 2 mm + broad, slightly thickened on edges at tip hence probably L. Clymenum L var articulatus Ric. Kn II 123, Bar 144, Coste I 396. Style certainly not "aristé". Pedunculo articulated well above middle with 1 small bract at this point. Lowest ~~stipules~~ tendrils are simple, upper ones branched.

2-26-32 Lathyrus Cicera L. Kn II 124, Bar 145, Bon 88, Coste I 397 Flowers yellow fr. Bot. Mrs. Nellis's Geneva cemetery Gdn with above. Lowest tendrils simple & short, upper ones branched. Style bivalved (½ turn) so that its

edge is nearest tip of leaf.

2-26-32 Euphorbia dendroides L. Kn III 151, Bar 444 Bon 299, Coste III 241 Fl. Hedgerow of Mrs Nell's (see 3-26-30)

[L. simplex DC. (acc to Kew 5-2-32)]

3-1-32? ~~Linaria arvensis~~ Desf var. micrantha Berg Kn III 378 = L. micrantha Spreng Coste III 22 (Bar). Fl very sm. Sent by Mrs. Kennedy from Andraitx. Stem (as sent) 11 mm high, reduced in size & simple almost leafless with old pods, each subtended by bract extending at distant intervals to the compact short infl at top. Largest lvs 18x4 mm v prob "subtinervies" Corolla no more than 4 mm, with def blue lines (20x) to make it look dark blue to eye. Its tube is wide at base, 1 mm & spur is only a conical tooth less than 1 mm long (this angular in shape rather than as ill Coste). The orbicular winged seeds 1-1.5 mm diam are tuberculate on one side. Calyx lobes gland-pub but not ciliate. General effect is more like ill of L. arvensis Desf Bon 234 & Coste than like ill of L. micrantha (Coste) but tuberculate seeds & tooth like spur seem to decide in favor of L. micrantha

[L. arvensis Desf var simplex Chav. Kn III 378 = L. simplex DC. Bon 234, Coste III 22]

3-1-32? Melilotus italica Lamk Kn I 98, Bar 112, Bon 76, Coste I 332. Fl & young fr. Sent by Mrs. Kennedy from ~~Andraitx~~. St stout, strongly ribbed & hairy-red. Plant found at Raxa. Perhaps cultivated.

31-33 red. 2 fts to 8X2.5 cm. Stipules small, lanceolate acuminate, the uppermost entire, those slightly lower down somewhat toothed at base. Infl not as long as lvs. & peduncle only very shortly & bluntly quadrate. Pedicels shorter than calyx tube. Calyx 5 mm overall; teeth almost equal. Fl 8 mm overall; standard slightly longer than wings & keel. In calyx 10 nerves now easily visible. Young fr (now 2.5 mm long) strongly rugose on sides, sessile.

602A

3-1-32 Hippocrepis balearica Willd Kn II 114, Bar 138 A. Jacq.
Fl & very young fr. Sent by Mrs. Kennedy from Raxa
St. 6 in long drooping as though it might be taken hanging on cliff face; brown part (as Gilbert green but stiff & perhaps woody. St & lvs glaucous & look glabrous but really puberulent (20X) with minute appressed hairs. 2 fts usually 6 pairs. 8-13 mm x 3-4 mm, lanceolate. Stipules tiny, entire. Fl stems almost twice as long as lvs. Keel ridged & arched. Fls 6-7 in umbel. Fl 15 mm overall, fragrant. Corolla bright yellow, the standard with darker veins.

3-2-32 Stachys hirta L. Kn II 340, Bar 366, Bon 253 Cat III 119 Bud Ports-Pi see front. under fort.

3-2-32 Bartsia latifolia Kunth. Kn II 396; Coste III 48 = Eufragia — Schiede Bar 348; Bar 239 Fl. Porto-Pi east side of fort. Note the 2 yellow rained spots observed 3-26 & 29-30.

3-2-32 Echium Calycinum Vis. Kn II 310, Bar 323, Bar 228, Coste II 592 Fl & young fr. Porto-Pi (this is same as common in roadsides Tiberno & elsewhere) to go with following. Lvs hispid (almost prickly to touch) and look spotted in lighter color from the tuberculate bases of hairs. Middle lvs oblong & narrowed to base, but upper lvs & bracts are not narrowed at base but are dense 3-10-30 tend to be sub-cordate (Coste to the contrary). Lower fls often extra-axilar, Calyx def accrescent. Corolla light blue (bud pink) 12 mm long. St. almost prickly. Carpella 3 mm high.

3-2-32? Echium Calycinum Vis forma arenarium Kn II 311 = E. arenarium Guss Bar 324, Coste II 592, Fl. Early Porto-Pi near fort on west side. Evidently the same as 4-18-30 St & lvs covered with appressed tufts of hairs some of which are tuberculate based but look soft to eye and are soft to touch if rubbed upward not almost prickly as other species. Lvs not spotted in effect

3-2-32 Spec. Lvs much smaller than in above but similar in shape, the bracts (as to size) not def. different Corolla dark purple 5-6 mm; too early to see if calyx accrescent Some fls perhaps extra axillar. But stamens def. included (Bar to the contrary) and hairs not yellowish (Coste to the contrary). Root dark, flexible, spindle shaped (Bar.)

3-2-32 Nicotiana glauca Graham Bar 332, Bon 228 Coste II 617 Fr. Porto-Pl. Porto 1 cm long, nodding, curved pedicels. Seeds about ¾ mm. light brown, net-ridged,

603 [Identified by Kew 5-2-32. Specimen kept by Kew]
3-2-32 Orchis saccata Ten Coste III 400, Bon 310 Fl. Porto Pi on flat west of Port Ruby 3 plants seen. Tubers entire, oblong, 2 cm long (in spec. studied, only 1 developed, the other shriveled) looks hairy at top (perhaps fibers of old coating not now evident) St 3½ in high above ground. Lvs 4: Lowest gall a bladder sheath ending in obtuse point at base of lower lvs; lowest ft 45 x 16 mm oblong, obtuse; 2nd ft at same level 56 x 15 mm (these 2 spreading) 3rd ft similar ascending; 4th ft narrower upright & semi-sheathing st. to shortly above lowest ft. All these lvs springing from about the same point, grayish green, shining, rather translucent, the tips somewhat apron-fleet, the upper two acute at tip. Fls 4 crowded. Bracts purplish and fls. about 5-nerved but lateral nerves obscure; on lowest bract the mid-nerve shows green on net-

[Consulting desc. of O. papilionacea L. in Thompson's "Flowering Plants of the Riviera": Pollen masses not "stalked" but oblong-drab. Spur oblong rather than conical with thick blunt tip. No "scarlet" in fl. No def. "stripes".]

side. Bracts longer than ovary, the lowest being almost as long as flower. Ovaries twisted so that flowers stand at all angles. Spur 7mm at back i.e. about ½ length of ovary and thick (3mm at mouth) hardly tapering to its blunt tip, light chrome color suffused with purple & green & with a definite darker line down the middle in front. Sepals dull greenish-purplish with 3 obscure veins; the lateral ones slightly rounded at base beneath and spreading (nearly horizontal) into almost vertical falcate, the tips slightly curved back. These lateral sepals about 11×4mm. Sepals all rather blunt. Petals same color, linear, narrow (1½mm), shorter than upper sepal & with it (tho free) forming a hood. Lip only slightly longer than calyx, sub-orbicular 10-12mm in diam but edges sometimes slightly crenulate, & lip slightly twisted or edges slightly bowing so as to give a longer feet, not deeply narrowed at base. Lip is whitish at very base shading into a bright purple which at edges & on underside is almost brown. The white prolongs itself in a narrow V at base of lip with a purple line down the center of the V. The thick spur approaches the horizontal or vertical according to position of flower but always lies snugly in the hollow of the downy ovary. Glands 2, sac. Connective makes small equal sided ◇ between & above fallen sacs

3-2-32

pollen sacs and there is a definite elapsed flange just above sac. Lip not at all 3-lobed (in Barcelo' this must be O. papilionacea L. Kuntze 399, Bar. 457, Bon. 310, Coste III 399 but "sepals not convivent so as to form a definite mission" nor does lip spur look like ill (Coste). Otherwise in Coste as O. saccata Ten Coste III 400, Bon. 310 the lvs show only a slight spotting & brown on lower side (could easily be attributed to disease). Spur general effect more like O. s — ill Bon. 310 than like ill of O. p — Bon. 310 (even this one O. p- seems to have spreading wings. Dr. Arnold Schultze has fine drawing of another specimen from Porto-Ri.

3-2-32 Plantago Lagopus L. Kuntze 409; Bar. 380; Bon. 266, Coste III 148 Bed Roadside Porto-Ri. This is Barcelo's "Farina pingüe" as lvs are 1½ in wide & 5 nerved and linear petioled 5 to 10½ in long. Note also that sts. bear lvs and axillary peduncles to a height of 8½ in above ground.

3-2-32 Fumaria Capreolata L. Kuntze 8, Bar. 23, Bon. 14, B & H 23, Coste I 68. Lower petal 1 + mm at base and only .6 mm at tip (practically wingless) thus agreeing with Coste & Bon. Pedicels of the oldest flowers strongly reflexed.

3-2-32 Evax pygmaea Pers Syn II 449, Bar 260, Bon 173
Coste II 327 Early fl. Porto-Pi west of fort. (See 2-11-31) As in
2-11-31 can not understand Coste's distinction between
"folioles de l'involucre" and "écailles de la circonférence".
Floral lvs, oblong, obtuse, white-tomentose (except at base
inside) 10 x 5 mm surround a group of sessile heads.
Each head begins with scales subtending 5 flo.
These scales are oblong-spatulate 2+ mm x 1½ mm
with a acuminate tip 1½ mm , hyaline,
except greenish band on body of scale. Tips begin
to look yellowish and to bend outward. Note, under scales
glabrous (Coste says folioles of involucre "velues en dessus
et dessous"). Note also that 5 flo subtending scales are
"multiseriales" (Bar.) covering most of receptacle
the ♂ "en corto número" (Bar.) being only a few at
very tip of receptacle. Stigmas & tips of corollas
moved. Young achenes def. "papilleux".

Acacia lophanta Willd. Sec Syn I 537
3-2-32 ?? Albizzia lophanta Benth. B M J CP 439. =
Tree cult. in yard on south side Jid bet Carp-Mari & Limo
team junction. Has both Acacia. End of branchlets
collected) stout, somewhat zig-zag, strongly ridged
and rusty-tomentose. Lvs alt., some seem to
have tiny lance-acuminate stipules but the young
lvs at end of branch show no signs of stipules

3-2-32 stipules. Petioles (about 2 in long) and rachis tomentose like st. Ridge grooved down center of rachis not deep but def. and this with additional grooves on upper side of petiole gives the same ridgy effect as st. About ¼ distance above its base the petiole bears on upper surface a gland, oblong (3-5mm) and almost glabrous. Rachis of ± 5 in. bi-even-pinnate with 10 pairs of pinnae (4-5 in long) with 30+ pairs of lfts. Stalks of pinnae short (about 4mm) & stoutly cylindrical. with often 1-2 small stipulae appendages below lowest pair of lfts. Rachis of pinnae with def. ridge down center, Lfts sessile, 11 × 2.5mm, oblique (i. mid-rib & center), oblong, obtuse glabrous (except the very young which are very coarsely brown tomentose) and with thickish look as this persistent. Since being picked lfts have been closed as in a "sensitive" plant. Flowers axillary spikes about 2-2½ in long; usually 2 spikes in each axil. Pedicels 2mm long. Calyx 2mm high with 5 short triangular lobes, its tube separating from base in definite ring. Corolla tubular. 5mm long, greenish & divided almost to middle into 5 small lobes. Stamens ∞ yellow (pistil) exserted to about 6mm beyond corolla, joined in a tube for about 2mm at the base.

3-2-32 Merendera filifolia Camb. Kut I 366, Bar 438, Conte III 248 Low with fifty pod. Pots-Pi Bulbs not collected but the 1½ in at. below ground with black coverings Lvs 7 (possibly had been more) to 7.5 cm x 1.5-2.3 mm, dark green, shining, channeled above, curving downward, some at tip curling. Scape 4.5 cm (Bar says sometimes longer than lvs.) Pod 1 cm. high. Seeds globular about 1.5 mm, black, roughened with tiny oblique, apiculate tips

3-5-32 Muscari Comosum Mill Kut 378, Bar 446, Bon 210, Conte III 327 Fl Bellevs.

604

3-5-32?? Herniaria cinerea DC. Kut I 463, Bar 180, Bon 109, Conte III 108 Bud. (In flow.) Old charcoal pit in open valley west of Ribas house en route from big pine to Query 4-corners. Mat with branches 1-2 in long and as remembered closely appressed to ground (Cardina. for H. hirsuta (Bar. & Conte). Hence and because there are some opp. lvs perhaps H. hirsuta L. But hairs at tips) sepals not noticeably longer than others (See 3-17-30) Stamens 2, petals none (asperas can see at 3.)

3-5-32 Pinus Pinea L. Kn I 370, Bar 439, Bon 373 Coste III 387, B.H.J. CP. 82 Fr. Solitary tree bet. San Montanes & the Palacios. Note twigs from which bvs have

3-6-32 Aphyllanthes tenthredinifera Willd. Kn I 402, Bar 460, Coste III 391 = O. grandiflora Tin. Bon 312. Fl. Brought by Dr. Schultze from Bellver & sent by Mrs. Kennedy from Andraitx. Ill Bon very poor, ill Coste excellent. Fl 2.5×2 cm.

605

3-8-32 Gagea Soleirolii F. Schultz Kn I 368, Bar 436 Coste III 312 Fl (early) Liliaceae. Lumps placed out 1½ K out from bus terminus on road towards Valldemosa a little path on left hand side of road. Group with what seem many seedlings. Only 1 fl open. Bulbs 3mm long & bvs wide, set somewhat obliquely, def yellow in color with no sign of enveloping tunic. Basal bvs 2, 11 K cm long × 2.5mm wide shortly above base (These basal bvs grow from point just above bulbs & hence their bases — light in color — were probably underground) Near base 2-3 st. bvs near together, which subtend a secondary fl st. and just possibly there is a bulbil as dear fr. G. foliosa R & S. (Coste). St then naked until top where much shorter bvs (but longer than ovaries) subtend fls. These bracts sparsely long ciliate. Coste Fl to 2.5 cm across, divisions 6 greenish yellow inside, green outside and 3-5 × as long as

Exterior divisions with dark markings on edges very noticeable in bud. The one Pl. I saw has 7 principal divisions and ovary & stigma 4-lobed. Anthers 6, as does. Plants thought to be seedlings had 1 pl. form 4" only, to 30 cm.

3-8-32 ? Veronica arvensis L.

Flowering spring fs. Atlantic on place (perhaps more suited field above bldgs. Annual 1 to 2-4 cm, hairy with many spec. hairs tending towards 2 lines. Lower leaves opp, upper alt. never more than 5 mm long, very short petioled, uppermost sessile. Corolla 2 mm high & only about ½ as long as the longest of the considerable unequal calyx lobes. Corolla white (in one case pale blue & 3 mm high) Pedicels much shorter than fls when blooming, but lengthen to be longer afterwards. Sepals oblong with the long spreading pubescence mostly glandular tipped. Style (in fl) ⅓ mm long. Ovary glabrous on sides but def. short hairy on edge. (The above crossed out applied to a plant which may perhaps have been V. agrestis of which only a part collected) Note Br #349 says corolla "to nearly white".

3-8-32 Lotus ornithopodioides L. Ku III 98, Bar 132, Bon 81, Cortes 359 Fl. Espalmas-Valdemosa rd south side of divide. Fls 3-4; 9 mm long.

3-8-32 Allium triquetrum L. (See 8-19-30) F.L. E. apalas

3-8-32 Scrophularia aquatica L. var auriculata Knuth 370 = S. auriculata L. Bar 336, Cat. # 7 Old fr. v young shorts. E. apalas in old shed with running water very shortly out of town on way to Vallelemosa. Wings on st. are def. tho' narrow. Br. sides winged. Def shorter than lower nodes but not shorter than upper ones. Infl. Pyr & branched making loose ala. Capsules 5-6 mm high. Not all lvs have the auriculate segments.

* and in one case 2 stems.

[R.B.K does not know whether any plants like these were submitted to Kew]

R. 605A

D.H.4681

3-9-32 Romulea parviflora J. Britten Kew I 393 ∧ = R. Columnae Sm & M. Coste III 364, Bon 304 = Tricoronema Columnae Pelat Bar 449. Fl (not yet in full bud) ∨ bad Sent by Mrs. Kennedy from Andrait x, Cala Rajmeyer 1 to 3-4 the longest 5 inches long, very narrow ∨ spreading, all basal, with sheathing bases. Stem about 10-15 cm. Fls sometimes two, more often one. Petiole seems to have been 1 cm long. and (at least when in tuft) stands upright making angle with the ±5° sheath. Stamens of longer than pistil, filaments very slightly if at all pubescent Stigmas seem rather more deeply notched than ill (Coste) [R.B.K in April 1935 comparing all specimens these come all of #605A are like #632 ∨ hence R parviflora]

3-9-32 Leucea conifera DC. Ker II 506, Bar 272, Bon 181, Coste II 385 Fl Sent by Mrs. Kennedy from Andrait x Involucre shades from pale tan at base to purple at top. The lowest top) at (only about 1/2 as long as the Ball Leaves ∨ simple. Aigrette nos 18 mm long. Fl 25 mm long. Corolla

3-16-32 Erastium vaccaoum L. Ker I 454, Bar 76, Bon 74 All II 85, 4 383 = C. glomeratum Thuill Bon 52, Coste I 316 Fl (early) Espolas Early fl. Stems 2-2 cm high. Calyx 6-7 mm long, petals the same. Sepals very sharply acute Exactly like ill (Coste).

3-16-32 Brunnia spinosa L Kn II 65 (sine P. L var balearica Wilk. Bar 156, Coste II 6, Bon 95, B V H 134, B M P CP 365 Fl. Esporlas - Establiments. Young bushes just beginning to show on some branches. Fl about 6 mm high X 10 mm across. Many short branches at first 4 straight and sharp at end but no real thorns.

3-11-32 Ophrys sphegodes Mill var atrata Rchb Kn II 402 = O. aranifera Hudson var atrata Rchb. Bot. 439 = O. atrata Lindl Coste III 389 Fl brought by Dr. Schultze from Belloca.

606

3-12-32? Lotus corniculatus L. Kn II 95, Bar 130, Coste I 361, Bon 81, B V H 120, G 511, B M P CP 403 Fl. R.R track east of Can Pastilla. Seems only form. but general effect unlike L.C - at Klein 1931. Stems decumbent 1/2 - in with many branches almost regularly spaced along the 2 sides. Sty often tinged reddish, not quite glabrous, but appressed hairs. Leaves gray-green with a few appressed white hairs. Lfts obovate, the largest 11 X 9 mm mostly rounded or slightly retuse at tip. Stipules broad & leaf-like longer than the 5 mm petioles. Peduncle mostly 1 1/2 times as long as lf. Fls 3 to usually 6. Calyx 1/2 as long, teeth equal & equal to tube and not spreading as does for L uliginosus (Coste, Bar, B V H Ill II). Fl 15 mm over all. Petal corolla yellow, the standard with few brownish veins but later corolla turns

more or less to deep orange. ♂ flowers L. edulis
♂ 3-2-32 v L. ornithopodioides ♀ 3-8-32 and L. cretacius
♀ 3-12-32. 1 flat top ♂ fl. stalk of these with more than 3 flts.

3-12-32 Anthemis arvensis L. Kn II 472, Bar 247, Bon 167
B & H 348, Coste II 345, ♃ 846 Fl R Read ♀ Can Pastilla.
Scales of ~~involucre~~ receptacle exactly as ill Coste. Scales
not tend all disk flts out to edge (B) but are only as long
as the flts (Grays longer). Rays han style (B & H). Lvs
bare faint pleas and odor when crushed. Lvs (unexpt.)
½-¾ in long, finely cut, gray-green. Sts. decumbent but ascd.
This is prob. plant seen 2-11-32 at luncheon place Don.

3-12-32 ♂ Medicago marina L. Kn II 70, Bar 117, Bon 94
Coste I 324 Fl Arenal (See ?? 11-22-30) This is evidently
same plant as 11-22-30. Only item of wrong in identity
that the narrow wing pair never longer than keel
(Bar & Coste say longer) and sometimes (at least in bud
ready to open) are ½ mm shorter. Fls 7-8 mm long.
Standard 2-3 mm longer than keel. Heads as ill
(Coste)

607 3-12-32
Passerina velutina Pourr. Kn II 212 ~~III~~ Pl X ~~III~~. = Thymelea
— Mem Bar 406 Fl Pyr ♀ Arenal. Fls leptomate tiny cones ♀
imbricated lvs. These lvs are prob the bracts (Bar). Plant seems
to be poligamo-dioicous in that some bear fls with stamens
& pistils (perhaps not fertil) others flowers pistils only.
Corolla ♀ fls 2½ mm ligle, ♂ others perhaps slightly glabrous
2 lobed ● corolla ● rather ● smaller than the others ♀ fls.

608

3-12-33 Hutchinsia procumbens Desv. Ku II 30, Bas 40, Bon 33, Coste I 136 Fl & fr. Can Pastilla by west wall of glasthouse toward Arenal and also around steps at (1) (2) Villa Maria nearing Arenal. Plant glabrous. St. slender. 6 in, light green & spreading to ascending in partial shade & almost flat on ground & dark green (pass reddish) in full sun. (2) Lvs greatly varied: lower ones usually about 5 parted in small obtuse segments & which terminal is largest. (Look similar to ill Coste of H. petraea as to anzo & delicacy.) St. lvs often all similar, but often some or many simple 5-20 mm (mc. petiole); sometimes much as ill Coste of H. procumbens. Early rosul short, the st. lengthening to 3 in. Floting (only slight conc 1 mm) Sepals upright oblong, obtuse (yellowish in #2); petals white no longer than sepals. Stamens 6, anthers yellow, as long as petals. Stigma sessile. Pod 3 mm high x 2 wide, thickish, blunt & retuse at apex, dehiscent, hardly wrinkled crosswise. Septum narrow. Seeds yellow 1 about 6 in each cell, in 2 rows, less than 1 mm long, roughened. Cotyledon incumbent #0.

609

3-12-33 Draba verna L. Ku II 31, Bon 29, Coste I 116, Bol H 44, # 422 = Erophila vulgaris DC. Bas 38. Fl & fr in sandy beach & shore at west end of Arenal & in Arenal on way to road to Los Angeles. St. 2-6 cm, basal lvs from 2-10 mm.

-610

3-12-32 Malcomia arenaria DC Ku II 34, Coste Bar 567 (Ku. queries if the plant so reported from Moya by Mar et V. was not really M. parviflora DC. for which see Coste I 83, Bon 22) Fl & fr. in sand back of shore at west end of Arenal with above. Slender, perpendicular white tap root to 5cm, enlarged at very top & scarred as by lvs or branches now fallen. Due to 4 sts rise from this point to 5 cm or less, the oldest ones bearing 1-2 short branches. Sts mainly wide spreading or even decumbent at base. Sts. lvs. calyx & pods all softly stellate-velvet. pubescent. Sts & lvs simple, oblong, blunt at tips narrowed at base, the st-lvs sessile the basal lvs short petioled, Lvs thickish, mostly entire, some of lower ones with few obscure teeth. Calyx 2 mm, on pedicel of same length, often purple tinged. Sepals erect, almost equal at base, the exterior ones narrow white-margined at top, rounded at apex. Petals 1-2 mm longer than sepals, square topped, entire; light tinged purple on opening, growing much darker. Pod about 1 cm X 1+mm, slightly. Septum has two narrow veins close together down middle, similes to veins on edges. Cotyledons incumbent ||o.

3-12-32? Helianthemum origanifolium Pers forme Serrae Ku II 201, =H. Serrae Cavan Bar 50. (Sea all Coste I. 149 & H. marifolium DC which pers = H. origanifolium Pers)

3-12-32 Pers. Early bud Arenal with abor. Tiny prostrate rosette with handles 2 in long very like all (Coste) Sts red v retrorse with v lute hairs. Lvs thickish, gray green coming out of bud with more v less similar hairs on both faces, especially (v there lasting longest) on edges v mid-rib beneath but finally glabrous. Sepals (now) reddish with similar hairs very obvious on edges. No style as yet developed.

3-12-32 Statice echioides L. Kuntze 371, Bar 389, Bon 262, Coste III 160 No flo fr. By steps of Villa Maria west of Arenal. St Rosette all (Coste) Lvs in rosette, gray-green obovate v spatulate, rounded at tip, narrowed but not decurrent at base. Underside smooth, glabrous v with a few obscure lateral nerves. Upper side with striking irreg roughnesses like algarter slain, the lower ones tipped white (20X) Largest 4 by 1.5 X 2 cm overall Young sts gray-green, finely tuberculate v finely ledas are the bracts. Fl buds too young to show clear

T 611 [Kew identifies this as S. nocturna L.]
3-12-32 Silene R B.N. is sceptical. See 630 & 651
Fl. Field just outside Arenal on rd to Los Angeles. Root abundant, perpendicular. St 8 in high, now only 1 developed but other ones starting decumbently from base. Plant grayish v puberulent through out but no signs of glands or viscosity. St lvs linear

20-25 mm x 2-3 mm, acute, def ciliate at the joined bases. The lvs ± as long as internodes. Lower lvs similar but tending to be narrower & more spatulate. Inflo a scorpioid 1-sided raceme at top & st. & perhaps 1 or more accessary racemes developing later below. Bracts & infl. similar to lvs but shorter, so as not to overtop calyx (sometimes slightly). Pedicels slender 5-7 mm. Calyx 10 mm high, narrowed & not umbelic at base, with 10 green nerves, the space between thinner & transparent. Teeth 2.5-3 mm, in elongated triangles, erect in fl & fr (a.t.S.) usually purple edged and sometimes veins tend to be purple. Teeth ciliate on edges & tip. Corolla seems (fls withered when studied) as long or a little longer than calyx. Petals green in claw, red in the 2 lobed limb; scale 2 lobed (lobes round) greenish-white. Filaments glabrous. Fl seems sometimes to have only rudimentary petals. Oldest fr now has pubescent carpline 2 mm high & glabrous capsule 7 mm ie. top reaching to tip of calyx. Seeds (unripe) in three, kidney shaped, 1.3 mm long, flat on sides, deeply grooved on back with thin ruffled wing edges. Stamens not exerted. Shape of seeds suggest S. bipalita Desf or S. ambigua Cavt Bar 61 both included in S. serrulata All forma ambigua Kn I 469 but relative size of carpline (may lengthen in maturity) is against this. See S. serrulata All Cat. I 178. See also S. cerastioides L. Bar 569, ≠ S. — L forma coarctata Kn I 465. Bairdiana. Extended seems quite prostrate as

3-12-32 as for last #no. Field where gun was
salty maritima var. Lvs stand erect along st.
(See SD 3-26-32 v) 4-22-32 whose sl. stalk to capsule
proportion is not Rae # 151 & 152. Poss S. gallica L.
but more likely S. decipiens Barcelo: Bdg 61.

612 [RBS S. rubella L. see Kew ident) #629) 3-28-32
which RBK det same as #612]
3-12-32 Silene
Fl. R.R. track bet Carquinez & San Francisco (i.e. east of
C.P.) Note that in one place land is really salt sand not
Cakeile as maritima, Arenaria rubra etc
but don't remember whether this found with them.
Root slender as) annual & white. Sts decumbent
at base & perhaps not completely erect, 10-12 in
tall, dark green tinged red dish especially at nodes, puf-
erulent but not at all glandular & viscid. (No gland
or viscidity on plant anywhere). Lower lvs with weak
young branches in axils & upper lvs with beginning
of branches. Lvs oblong-spatulate to broadly ob-lanceolate
those in middle region) 4 cm to 6 X 1.5 cm & long tapered
to base, the lower ones somewhat narrower and
long tapered to base, the upper ones shorter about
3-4 X 1 cm and almost straight sided not tapering
to base. Lvs puberulent, ciliate at the joined bases.
Lvs with edges not red (esp. upper ones) and edges of
upper lvs red. Infl (naw) consists) 1 fl 3 fl'd at
top) at (suggesting unilateral decipiens arrange-
ment. Bracts like lvs but smaller. Pedicels slender
1 cm long. Calyx not umbilic, slender at base
and (in fl.) only slightly enlarged upward.

Calyx 1/2 mm long, prolonged between teeth one 2 mm. Calyx whitish green with 10 narrow nerves. Teeth concave, reddish, rounded, with few f. ciliate. Petals (written when studied) barely longer than calyx. Claw thin & transparent with 3 red nerves. Blade deep red, not clear (not deeply so) scales at throat fimbriated with 2 oblong lobes fully 1 mm long. Filaments glabrous. Carpellate light papillate, (now) 4 mm long. Pod (now) approaching cylindrical, 7 mm long, glabrous. Ovules 1 mm, almost circular kidney shaped, thicker than # 3-12-32, sides somewhat concave, dorsal groove shallow, edges thick & rounded with signs of minute cross veining. Last long as internodes. Stamens not exerted. Upper bracts longer than the fl (the one fl. opened) last standing erect along st. This evidently should be in Bar # 145-152, gathered all carefully considered. Of these perhaps S. sericea All var balearica Willk is best guess = S. sericea All forma ambigua Kn # I 469 See S. sericea All. Coste I 178

3-12-32 ? Frankenia pulverulenta L. Knt II 189, Bar 57 Don 40, Coste I 165 no fl or fr. Can Pastilla Arenal shore or back road. Arbuscular as all (Coste). Las 6 x 4 mm distinctly "pulverulento" beneath. Side of fl often somewhat drooping this edge not strictly revolute (See 3-30-32)

3-12-32 ? Seldropoa rigida Brio Kn I 312, Bar 503 Bor 364, Coste III-624 = Poa — L. Bv H 639 I-P. Road back of Can Pastilla but frequently seen in Majorca. Ident almost certain. The very short branches often bear only 2 spikelets: one terminal & the other at base, rarely bear as many as 5- practically sessile spikelets. Lemmas ± 5 nerved, 2 mm long. See Wolf's Ill Tat C LVIII Q Desmazeria balearica which Kn I 314 says "Entièrement proche du Scleropoa rigida" Sts 10 to 12 cm. Lvs hardly "rude"

013

3-12-32 Cerastium

Fl v fr. Can Pastilla - Arenal. Possibly with Draba verna & Malcomia arenaria but not sure. Sts to 2 Cm high. Plant def hairy with a spreading hairs not at all glandular or viscous. Lowest lvs close together forming almost a rosette. The very lowest ± spatulate & narrowing to petiolate base, the higher ones ± st. ovate to oblong to oval sessile 3-5 x 2 mm. Lvs thickish but tender. Ill-acute lateral nerves seem to run from base to apex, in st lvs & bracts showing def. tendency to curve ‖ to edge of lf. Bracts like lvs but smaller. Fls few, the lowest on pedicel of 2.5 mm, def ± reflexed in fr. Calyx almost 4 mm long, hairy but hairs not long enough to cover the sharp scarious tips of sepals. Inside edges of sepals laid shewing white scarious. Sepals faintly 1-3 nerved. Hairs issue from inside very conspicuous. Petals about ½ length of sepals, narrow, pointed-

jagged at top. Stamens at ♀ as long as petals. Petals not filament ciliate. Perhaps stamens only 5 ♂♂. No more found.

Capsule opening with 10 small teeth straight apt teeth hardly (perhaps not at all) exceeding calyx. Seeds yellowish, about ½ mm, roughened. Considerably poss of C. illyricum Ard (= C. pallasianum Seringe) Coste I 217, or poss of these being a form of C. semidecandrum L. (see #614)

614

3-12-32 Cerastium

Fl & fr. Can Pastilla - Arenal above beach road. Prob shore. Many sts from base spreading decumbent, reddish 2 lvs similar to #613, internodes much longer than #613, some 2 cm. Hairs on plant gland-tipped. Infl well developed cymose upper bracts scarious tipped (possibly #613 would have been similar if further developed) Calyx 4 mm long. Capsule when ripe 5 mm long, slightly curved. Pedicels arching slightly but not strongly deflexed. Seeds as in #613. Stamens prob 5. Fruiting pedicels about twice as long as calyx. See C. semidecandrum L. Coste I 217, #383 Bo #714 Sel # 84, Bon 52, inc in Ku C. vaginatum Cos et Germ forma semidecandrum Ku I #55

615

3-12-32 Cerastium

Fl & fr on same walls as above. Prob same as #614 but more compact in infl and internodes usually no longer than lvs.

616

3-12-32 ? Alsine tenuifolia Crantz Kn I 450, Bar 67, ~~Bell H~~, Coste I 202 = Arenaria —— L. Both 71, Bon 49 Fl Cam Pasilla Arenal pros. with Draba & Micromeria Dent. seems as ame as pos without fr. Delicate plants 3-4 cm high with 4-6 branches spreading from or near base, clothed with retrocurved hrs (but weak & often spreading somewhat longer than internodes, those at tops being more erect & with the infl. buds making effect of a little tuft. Plant glabrous except for very rare gland-tipped hairs in infl. Lvs 5-10 mm long, 1 mm at very base but less than half as wide above & very acuminate at tip. Ct base 3 upper lvs can see 3 of the nerves (Bon) and pros. the other 2. Pedicels filiform 3 mm; Calyx 4 mm, Sepals narrow, narrowly scarious on margins, 3-nerved & very sharp pointed. No petals found. Developed stamens few. Styles 3.

617 Arenaria

Fl & immat fr. Cam Pasilla - Arenal pros with Draba & Micromeria. Rt slender as annual. Sts 3-5 cm with several spreading branches at or near base. St. often purplish covered with very short retrorse downward pointing hairs, ltg from base to tip. Lvs erect lvs (no noticeable) & almost petioled, the last sessile and longer than internodes. Lvs distinctly ovate 3×2 mm, with short

stiffish hairs on both sides and on edges giving def. ciliate effect; edges & underside of the petals. Midnerve only distinct but there are perh 2 (perhaps 4) lateral nerves. Skin on underside of lf rather loose & inclined to pucker and is easily removed. Infl a small (4 to 5) terminal cyme with hairs slightly glandular. Peduncle 1.5–2 mm. Calyx 3 mm. Sepals narrow, acute, 3-nerved, scarious only on inner margins. Developed stamens less than 10. Petals present, white, less than ½ length of sepals. Styles 3. Have considered all poss. in Kew Bull & best guess is that it is a form of A. serpyllifolia. Another is A. trinervis L. var pentandra but its general look is not at all like A. trinervis & the unripe ovules show no appendage at hilum (B.M. 172) Shape of plant & effect of two suggests rather like ill of Alsine laricifolia Mor. Corte I 201

7.8.18

3-12-32 ? Euphorbia peplus L. forme peploides = E. peplides Korsan. Fr. Arenal in salt-sandfield behind soldiers quarters. Tiny reddish plant, prostrate with branches from base to 5 cm long. Lvs 5–6 x about 4 mm. Capsule & seed as desc but seed 1½ mm long. If this is E. peplides perhaps none of others found hitherto have been.

#61?

3-12-32? Adonis annual. var. dentata. Kunze in I 49 = A. microcarpa DC. Bar 566. Fl v advanced fr. (See 3-4-30 and 2-23-32) Carpels shaped like none gillus. Crete I 33-4. Int rather

3-12-32 Ephedra fragilis Desf. Kn I 27, Bar 431 Not fr. Abund west end, not more than 6 ft above sea level.

3-12-32 Alpheya tenthredinifera Willd (See 3-6-32) Fl in sand just back of beach west of Arenal.

602

3-13-32 Gagea Soleirolii F. Schultze (See 3-8-32) Fl. Col. by Lady Harvey in Bellver.

601

3-13-32 Alpheya tenthredinifera Willd (See 3-6-32) Fl. Col. by Lady Harvey in Bellver. Structure abnormal fl only at apex. Fl 1 cm high. Upper sepal & the 2 petals normal. Lateral sepals lacking; lip lacking very place taken by member just like upper sepal & petals. Int. Stamens 2: one in normal position under upper sepal and the second opposite in exactly similar position under the member which takes place of lip. Fl thus symmetrical of 4 perianth parts & 2 stamens.

3-17-32 Helxine Soleirolii Req. BM & CP 241 = H. — Gaudich in Freyc Kn I 423 = Parietaria — Spreng Bar 425, Coste III 346 Fl & ♂ Sent by Mrs. Kennedy from Andratx St. lvs v ♂ fl (which has rudimentary pistil) agree exactly with desc. BM & CP. [Collected at Las Barcas]

3-17-32 Alkanna lutea Morris(?) / Kn II 304 = A. — DC. Bar 321, Bon 231 Coste III 586 Fl. early / Sent by Mrs. Kennedy from Cala Deyas, Andratx

3-18-32 Scrophularia peregrina L. Kn II 369, Bar 335 Bon 231, Coste III 5 Fl Talaio just outside gate of Bellver. Note st. softly gland-pubescent throughout (Coste says "glabra"

3-18-32 Emex spinosa Campd. Kn I 431, Bar 403 Fl v adv. fr. Bellver east gate (See 2-24-30) Lvs in middle at 11×8 cm, smaller v pet. & larger below. Dead ripe might be confused with Beta maritima L (Coste III 180) or Chenopodium Bonus-Henricus L (Coste III 184), gray green v thickish. Petioles with distinct veins: 1 on each edge, 1 down face v 5 down back = 8 in all. ♀ in groups of 3-5 sessile in axils of lvs. From their midst rise 1-2 rather stout peduncles ½-1½ cm high bearing at their tips a group of ♂ fls on short slender pedicels.

3-18-32 pedicels (Note) in one case a sessile ♀ fl found also at tip of pedencles) Sep ♂ fls per. div. stamens 4-6. Anther cells attached partway at base but separate at top thus ♀ ♂ fl with 6 segs joined. the 3 outer with parching out curved points in fr, the 3 inner smaller unarmed convergent on top of achene. Styles 3 with fringy stigmas Achene 3 angled, not easily detachable from pericarp as it matures.

3-18-32 Helianthemum laevipes Pers Kn II 204 = Fumana —— Spach Bar. 51. Bon 36, Coste I 151 Bed Bellver - west and from gate. Fine spec. in toolem char. Lvs on old sts to 2-3 mm long in fascicles. Lvs on young (flowering) sts to 8 mm long with fascicles of few lvs in axils, Plant glaucous, glabrous except near top, where white spreading hairs similar to those on edges of bracts & sepals. Some other hairs gland-tipped. Bracts ovate-lanceolate thin broad base contrasting with the linear almost cylindrical lvs. Ovules 6.

3-18-32 (A) Helianthemum glutinosum Pers Kn II 205 = Fumana viscida Spach Bar 51. Bon 36, Coste I 151 Early fl. Bellver - north wall. No lvs pubescent as perhaps var. thymifolia Gr Godr Bar 51. Infl much more def pubescent than above with the hairs short and not in ciliate effect. Bracts narrow triangular not broad based as in above. Ovules 6. Lvs all opp.

3-18-32 Helianthemum Fumana Mill Ku II 203 = Fumana Spachii Gr & Gd Bar 51, Bon 36, Coste I 152 Fl. Bellver. To left with the 2 above. Annales 10.

3-18-32 ? Valerianella Morisonii DC. sous-espece microcarpa Ku II 433 = V. microcarpa Lois Bar 229, Bon 146, Coste II 268 Fl v young (not bad turnips) fr. Bellver. This seems to be same species as 3-14 & 26 & 30 -30 taken them on strength of Barcelo and Bonnier to be V. truncata DC. See also 3-30 30 "B" and 12-23-30. Now in light of Coste it seems V. microcarpa Lois as far as can be determined without ripe fr. Plants to 5 cm. glabrous or with downward and flexed hairs on edges (inapparent to eye but not to touch). Lvs glabrous or with similar hairs on edges & (less often) on mid-rib beneath. Basal lvs obovate, undulate-pinnatifid to a distinct petiole, 15 x 5 mm overall. Stem lvs long, widest slightly above base, broadly acute, in one case with slight tooth at base, otherwise all entire. Plant a fresh clear green (Albert fr now 1½ mm overall) & wick the ½ mm is the ear-like calyx limb. Limb of true entire, very like ill Coste. Bracts not longer than all fruit

3-18-32 Valerianella coronata DC. subsp discoidea Rouy forme multidentata Knuth 434 = V. discoidea Loisa Bar 231 Coste II-269 Fl Bellver. Cfd with above. Plant 1½ cm high darker & grayer than above. Lvs almost entire. See 3-17 & 30-30.

3-15-32 / Hippocrepis ciliata Willd. Knuth 113, Bgr 130; Bon 91; See H. multisiliquosa L. Coste I 410. Fl. Bellver. Tiny annual to 7 cm. (Noted all like H.) 3-29-30, 2-4 & 3-1-32. Lfts obovate 4-5 x 1-1½ mm. Peduncle shorter than lf. Fls in umbel of 3. Corolla a rather lemon yellow, 5 mm from tip to tip.

6 21 A

3-18-32 Alsine tenuifolia Crantz (See 3-12-32) Fl & adv. fr. Along path near side Bellver. Cfd with 3-12-32 thin sts. atten & stiffer, & lvs fewer & less & less shorter than internodes. Sepals well open in fl; petals none, stamens 5-6. Fruiting pedicels spreading-ascending 3-7 mm long. Aldeat capsules & almost as long as sepals i.e. 4 mm. Calyx gland-pub.

6 21 B destroyed

3-19-32 Ophrys scolopax Millvae a strata Bing Knuth 402 = O. aranifera Huds var a strata Rchb Bas 439 = O. atrata Lindl Coste III 389 Fl. Bellver. Much less common than O. bombyliflora with which carefully compared.

3-19-32 Ophrys tomboliflora Link Kn I 406, Bas 461, Bon 312, Coste III 390 Fl. Bellver very common after the above.

3-19-32 Ophrys Bertolonii Moret. Kn I 403, Bas 460, Bon 312, Coste III 390 Fl Bellver.

3-19-32 Serapias Lingua L. Kn I 441, Bas 455, Bon 309, Coste III 386. Fl. Bellver Carefully studied with help of Coste

3-19-32 Ophrys speculum Lk. Kn I 407, Bas 461, Coste III 390 Fl. Bellver Common.

3-19-32 Diplotaxis viminea DC. Kn II 18, Bas 31, Bon 22, Coste I 80 Fl v adv. fr. Bellver. Fl 4 mm high, pedicels 2 mm. but some great variation in relative lengths of fr & pedicels as noted 3-2-31. Pedicels with a few downward curved short hairs. The many spreading abs 8-9 in exceeding the lvs by 6+ in.

3-19-32 Festuca gemiculata Willd var tenuis Kn I 320 = Vulpia tenuis Parl. Bas 507 = Loretia tenuis Willk, Willk Ill. 127 Tab LXXVIII. Bud. Bellver. Very delicate plant, 1 in tall, spikelets 2. Evidently annual 3-19 v 30-80 and like ill Willk.

3-23-32 Stachys arvensis L. Kn II 339, Bar 367, Bon 253, BVA 368, G 701, Coste III 118 Fl. Las Baleares (Andrait)

3-23-32 Hippocrepis unisiliquosa L. Kn II 113, Bar 150, Bon 91, Coste I 410 Fl. Las Baleares. (See 3-26-30) Fls paler yellow than H. ciliata Willd, 6+ mm long.

3-23-32 Salicornia fruticosa L. Kn I 441, Bar 398, Bon 270, Coste III 190 Willd printing Stems. Andraitx Puerto. Cavities def 3 parted (Coste)

622

3-23-32 Helleborus ~~foetidus~~ trifolius Mill var lividus Ku. Kn I 477 one in H. lividus Ait. Bar 16, Coste I 46 Fl. Las Baleares. Purple tint under, and ~~and~~ is only faint & occasional, not "tres marquis" (Kn I) Spines on lower lvs. Ten pent. Lvs veined above with white esp. definitely as in lvs of young plants. This leads R.B.K. to think this is the "begonia" noted for this very spot by Evan Lake in "Majorca" by Henry C. Shelley Chap XIII p 246 & mentioned elsewhere as in The Balearics & their Peoples by Frederick Chamberlain p 77.

3-23-32 Scutellaria balearica Barc (See 6-3-32) Rosette fr. [Identified by lvs like those 26-3-32]

623

3-23-32 Hippocrepis balearica Wulf Kn II 114 = H — Jacq Bar 150 Fl. Las Basses.

624

3-23-32 Helichrysum Lamarckii Camb Kn II 460, Bar 257 Early fl Las Basses.

625

3-23-32 Helxine Soleirolii Req BMQCP 241 = H — Gaudin in Freyc Kn I 423 = Parietaria — Spreng Bar 425, Cote III 246 Fl ♂ + ♀ Las Basses (See 3-17-32) ♂ flo bar ovary v stigma well developed (perh imperfect) ♀ flo no stamens, the 3-lobed exterior which looks like perianth is part of the involucre (BMQCP) and is what Cote describes as perianth. The true perianth being an inconspicuous 4-lobed tube inside [4-7-32 E.W.K. finds specimen collected in garden at Alfabia (between Palma & Soller).]

3-23-32 Clypeola Jonthlaspi L. Kn II 31, Bar 38, Bon 89 Cote I 114 Fl v fr. Las Basses. Narrow membranous stary [slightly] ciliated effect (20x) on ext. lvs & calyx. Center of pod papillate. Fruit & seed nearly 1.5 mm so it must occupy more than ½ of locule. Cote says (Cote says fr 4 mm diam & seed occupying "à peine le quart de la loge") Seed pendant from apex

3-23-32 Hutchinsia procumbens Desv (See 3-12-32)
Flv fr. Las Bassas.

636 [Kew tells Mrs K this is Cryophytum nodiflorum N.E.Br. =
3-23-32 Mesembryanthemum 112, Cact. II 122 — L. Sp. Pl. 447, Bauh. 186, Bon

? Aizoaceae. Flv adv. fr. Salvet & Andrait x Puerto. Nerb with taproot small enough to suggest annual. Many stems (about 6 in long from base) give very bushy effect to well developed plants. Plant glaucous gray-green, freely covered (v sh some lights glistening) with white blisters suggesting some Mesembryanthemums. Lvs opp, v thick, entire, sessile, partly clasping, ~~connate~~ very blunt at apex. Only mid-nerve shows plainly but but there seem to be a few obscure lateral nerves. Largest lvs in middle of st to 45 x 10 mm and perhaps slightly wider at base. (In some stems a few lower lvs alt., slightly narrowing towards base) edges slightly decurrent on st. Stipules none. Fls sessile in axils of the bifurcating branches. Calyx tube thick v short (ie 2-3 mm) v perhaps united with ovary at base. Calyx lobes 5 equal, narrow lanceolate, about 7-10 mm long, blistery scaly outside like lvs. white v smooth inside, not scarious on edge, thick (like lvs) and perhaps a trifle thickened v bordered at tip but not conspicuously so. Petals none. Ovary almost if not quite free, same texture as lvs & calyx, as broad as high & distinctly 5-lobed, with 5 sessile linear stigmas (1-2

mm long at first erect, later spreading star-wise) alt with lobes of ovary. Base of calyx lined with a def ring which bears the stamens. Stamens 10 in groups alt with lobes of calyx & lobes of ovary (groups usually of 2 but sometimes there are 3 in one group & 1 in another) Anthers yellow attached just above base. Stamens come to height of stigmas i.e. less than half of calyx lobes. Calyx accrescent in fr. (largest nos 20 mm.) Ovary at fr now 8×7 mm, the lobes becoming more pronounced, making 5 radiating flanges on the top (remains of calyx lobes & stigmas & filaments still present) Capsule completely 5-celled. Each cell with many ovules [some on long stalks] on a thickish axile placentae (ovules ovate, slightly flattened with stalk attached slightly above base on one edge) Ovules show signs of concentric ridges. Not found in any books at hand. See A for 397 for desc of Aizoaceae [Ken later sees this #626 & #688 5-29-32 together & persists in calling both Mesembryanthemum nodiflorum L acc to Mrs. K]

3-29-32 Stellaria media Vill Fl I 449, Bar 69, Bon 37, B & H 76, A 382 = S — Cyrill Cat I 212. Fl of Las Barcas in neighborhood of Hellebore etc. This is evidently var lanceolata S. apetala Lecris Cat I 212, B & H III 81. (A) Seeds 1 mm diam flattened, def sharp tubercled on edge but indef lines but more nearly smooth on faces. Lvs all petioled, none cordate, the largest 10×7 mm. Petioles

3-23-32 petioles broadened & ciliate at base. Petals none
stamens 2-3, styles very short. Habit as ill B & H & II. Calyx
glabrous & sometimes as long as the ripened capsule.
Line of hairs distinct on st.
D. Plant 4 cm. high. Lanceolate. 3x2 mm with petiole
1.5 mm wide.

627
3-23-32 Arenaria
Fl Las Basses. Seneca #317 3-12-32

3-29-32 Draba vernal L. (See 3-12-32) Fl & fr Las Basses

628 Kept by Kew
3-29-32 Silene [S. sericea, All acc to Kew]
Fl & young fr. Las Basses. 1 spec only found w. ripe fruits.
Root slender & insignificant. St slender decumbent
at base. This part 3-4 in long & has 4 scars. Then
several slender branches rising from near same
point, to 8 in long. Lowest lvs (near point of branch-
ing oval (about 2x1 cm) on broad petiole (ca 1.5-2
mm broad) & about 1 cm long. Upper lvs increasingly
lanceolate & tapering imperceptibly into petiole, the
uppermost almost linear but always tapering
somewhat to base. Plant gray-green. St pubescent
with short downward curved hairs; lvs with longer
hairs & petioles def. ciliate at base. Calyx pubescent
& its lobes might be called ciliate. No signs of

viscosity anywhere. Sts branch irregularly
Fls few. Infl. thin:

Lowest fl (now young fr) has petals 22 mm x calyx 13 mm. Calyx before fl opens, slender, umbilicate at base, enlarging slightly upwards, 12-13 mm long, later it enlarges just under top and shows striking veining & 10 green anastomosing veins on whitish ground. Teeth 3 mm long. Petals red (pass pink when fresh) 2-cleft, claws a little longer than calyx, perhaps would be called winged. (Petals seem joined together at base at first, but this may be only because withering) Scale white, 2-lobed. Stamens come just to throat of calyx, hardly beyond. Ovary at least fr. carpophore is thick, deeply grooved, pubescent, 7 mm long; capsule now 7 mm long, the calyx contracting over it. Seeds kidney-shaped 1.5 x 1+ mm now rather deeply grooved on edge & flat on sides but too young to have developed.

3-22-32 629
Silene
Fl & fr. Andrait x Puerto. Pt Boanegas # 612
3-12-32 RR track bet Cam Padilla & San Francisco
[Kew identifies this as S. rubella L.

3-28-32 Sesleria coerulea Ard. forma insularis Kn I 304. See S. coerulea Ard. Bas 485, Bon 351, BvH 564, Cat III 435 Fl. Bod a la mer a las Bassas. Lower culm 8 cm long, slightly overtopping culm, 2-3 mm wide. Ruff 2 cm long x 6 mm thick All 5 nerves of lemma diverging, the awn of mid nerve now 2 mm and almost twice as long as the other 4. So this is not like ill (Cat) nor like spec. of 5-29-31.

3-23-32 Taraxacum laevigatum DC Bas 284, BvH 274 - inc in T. officinale Webb Kn II 530 v. pars = T. laevigatum Desf. Cat III 428 Fl Las Bassas. Lvs only 5 x 1 cm me petiole v deeply v regularly pinnatifid with reg. pointing downwards →

3-23-32 Taraxacum oboratum DC. Bas 284, Bon 186, Cat II 429 = T. officinale Web var oboratum Kn II 531 Fl. Las Bassas near above Lvs 5 x 2½ cm, entire to below middle v then with few teeth. Effect entirely unlike above (See 3-30-30)

3-23-32 Senecio lucidus Camb. Kn III 60 Bas 106 Fl Las Bassas (See 3-4 v 3-30-30 and 3-2-31)

3-23-32 Sibthorpia balearica Knoche Kn I 391 (not = S. africana (?) Bas 345) No Fl or fr. Las Bassas.

3-23-32 Paeonia Coralina Retz forma leiocarpa Kn I 474 = P. —— Retz var Cambessedesii Willk. Bar 78 = P. Cambessedesii Willk - Ill Pl L XL. Bud. Las Basses. (See P. coralina Retz Coste I 55, Bon 11)

3-23-32 Lepidium Draba L. Kn II 13, Bar 42, Bon 33, B&H 48 Coste I 139, 6426 Fl. Andraitx Puerto.

3-26-32 Anacamptis pyramidalis Kn I 414 = Aceras —— R Chb Bar 406 = Orchis —— Bon 311, B&H 461, Coste III 403 Col. by Mrs. Kennedy Campde Mar. Port d'Andraitx. Agrees in all respects with deser. with Col. Ex cept that flis almost white, only faintly suffused pink (Mrs. K says all she has found all of this Color) stamen lilac, pollen olive buff.

629 A

3-25-32 Romulea

Fl. From Mrs. Kennedy. Andraitx.

[In 1932 Kew ident. as R. ramiflora Ten all the specimens submitted by E.W.K. from Andraitx and Valldemosa, dates of which unknown to R.B.K. Anyway #629A is not R. parviflora See #632 3-30-32]

3-26-32 Campanula erinus L. Kuth 442, Bss 297, Bois 200 = C. F—L. Coste III 496 Bud v. unsupfs. Bracana.

3-26-32 Draba verna L. (See 3-12 & 23-32) Basal remains of fruiting sts, pods all opened with septum remaining, low bodily inflated. Many specimens on road from bridge across torrente upstream towards Bracana. Plants about 1 in high.

630 [Kew identifies this S. apetala Willd.]
3-26-32 Silene
Fl v young fr. Roadsides Terreno and near Draba.
{Lilac #611 [Not Lilac #611 if Kew is right in calling 3-12-32 611 S. noctiflora L.]

631 [R. ramiflora Ten. See 3-25-32]
3-27-32 Romulea ramiflora J. Britten (See 3-9-32)
Fl. Sent by Mrs. Kennedy from Andraitx Lvs 6; the longest 7 inches, grooved on top & flattened laterally so to be oval in cross section, the edges & the groove being closed. Besides this 4 other grooves also plainly in cross section. 6 fl. stem is due from top of bulb, those past flowering now curving strongly downward.

3-28-32 Arum italicum Mill Kuth 354, Bss 469, Bois 319 Coste III 433, BMJ CP 134 Fl. Terreno in ditch & field opp Aigo Dolça. Like ill Coste but too much above fl.

3-28-32? Matthiola tricuspidata R. Br. Kn II 36 (Bss Bon 23, Coste I 85. Fl vadv fr. Same field as above but nearer shore. Ulbet fr 6mm cm long, somewhat compressed (Bon v Coste deg not), sessile (or pedicels 1mm), stalky pubescent, def 3 toothed at tip (All. Bon v Coste) the outer teeth being 3 minor, upper edge, the middle tooth much shorter v 2-lobed v at base 2 lobes bearing one each side a small but def out-standing tooth. Partition thick. Seeds show no sign of wing. Lvs gray-green with stavy hairs, oblong 10x2 cm, rather deeply sinuate lobed (generally not rather like Coste ill.) M. sinuata if this were more regularly lobed.) No glands on fr. Fls 6mm across, pale lilac. [see 5-29-32.

3-28-32? Medicago littoralis Rhode Kn II 71, Bss 119, Boiss I 327, = M. — Lois Bon 75 Fl v immature fr. Rl may mean above. The counterclockwise apical v apices pubescent in #299 - 301 Barcelo. And since fr which looks full grown this is is no more than 5 mm this seems def. identif. Ped 5-12 mm v sometimes shorter than lvs. Same found at Porto-Pi 3-30-30.

632

3-30-32 Romulea

Fl. Vadv. fr. Porto Pi west of fort near first house (where fierce dogs are) Bulb 7 mm ø with light brown tunics. Like (3-9-32) Stolon like (3-9-32), the two being shorter & narrower than (3-27-32), two being 7-10 cm long & 1 mm longest cross dimension, grooved as in (3-27-32). St. below ground 15-20 mm long and 2 or less mm thick. Sed fascicles 1 or 2 each bearing 1 fl. Scapes 5-25 mm high Fl 7-8 mm high, white with purple veins, the 3 outside divisions fringed yellowish green with definite purple vein down center, throat greenish white (certainly not deep yellow). Stamens about ½ as long as perianth, only slightly longer than style; filaments glaborous Stigmas deeply 2-3-divided (perhaps 4 to base) Perianth divisions hardly acute. Spathe valves 7 mm, the lower many nerved, scarious on margins toward the acute tip, the upper valve thin scarious (or almost) except for a few veins down center, obtuse & when fl open looking broad & pouchy, as if pressed, if looked less obtuse & obviously short yellow dark brown tip. Pod now 6 mm long i.e. only slightly shorter than spathe. Fr. scapes decurved but not forming half circles as in 3-27-32.

Romulea paviflora J. Britten Kew I 398, Bo H 468
= R. Columnae S. & M. Prod. III 364, Bon 304
= Triconema Columnae Rchb Bar 449
Identified by Kew as R. Columnae Sab. et Maur.

3-30-32 ? Aronia Arnithopodioidea L. Kn II 66, Bar 110 = O. or —— L. Cote I 313 Fl. Sent by Mrs. Kennedy from Valldemosa. Ident. as near as poss. without fr. Plant herbaceous, 6 in high (prob not full grown) much branched from base. Lvs all 3-foliate, the middle lft on petiolules 5-8 mm long, the middle lft 1 cm long & appearing orbicular in lower lvs, 15 x 10 mm in upper lvs. Petl. all shorter than lvs, many 3-flts as ill (Cote), articulated at apex. Calyx tube 1-1.5 mm, the setaceous 3-nerved lobes about 7 mm. Corolla slightly shorter than lobes. Axis or peduncle not more than 2 mm (as ill Cote). Id. middle lft petiolules 22 mm & stipules 8 mm long. Stipules hardly "entire" (Cote) but not deep. dentate. Whole plant except corolla sticky with gland-pubescence.

3-30-32 Malva parviflora L. Kn II 181, Bar 96, Bon 55, Cote I 237 Fl. & unripe fr. Porto Pi on road leading from tram (arching) end up on to bank. St. prob about 2 ft high, about glabrous, Lvs (esp upper ones) softly pubescent with longish hairs either single or several from one base but effect not at all stellate. Petioles rough to eye & touch esp on upper side. Lvs orbicular in outline, 3-5 lobed, lobes broad, crenate. Petioles spreading. Corolla 3 mm long (looked very small when seen but not measured) and prob a somewhat shorter than calyx. Stamens tube glabrous (Bon). Calyx def. accrescent but not yet reasons mm red. Largest

3-30-32 largest fr. now 7 mm diam v carpels begin to show transverse ridges. Cone 24 mm. diam v flat disk.

3-30-32 Scorpiurus subvillosa L. forma sulcata Ku Ku III 404 = S. sulcata L Bar 574, Bon 90 = S. sulcatus L. Coste I 403 Fl v young fr. Proto-Fl along rid from post to post. Winglike prolongt. Diff from Scorpiurus 4-20-30 in lvs 4×¾ in overall, stipules (13 mm long) attached only on lower ⅓ and always much too far apart to overlap. Lvs with 2 lateral nerves evident (tho not conspicuous), sparsely but not at all silky except on edges. Pedicules fl shorter than lvs tho fr longer than lvs. Ped bears 2-(usually)-fl (with same bract as desc 4-20-30). Calyx about 5 mm long, tube 3 mm. Lobs simuate rounded. Fr 8-10 mm long. Young fr curving as ill (Coste) with strong tuberculous backs only. Longest fr rounded at top (Bon) tho' others obtuse.
(But see Scorpiurus 4-4-32

3-30-32 Scorpiurus subvillosa L. Ku III 109, Bar 147 Bon 90 = S. subvillosa L Coste I 403. This is evidently same as 4-20-30 with ats flat on ground, shingled by the overlapping stipules. Lvs small fls usually solitary (tho ped fl not longer than fr. Lvs looks silky to eye but 20× not greatly diff from above, nor does calyx show difference. Fr too young to show mature char but very like fr of Arundo

stage in above. Flowers very young fls. Porto-Pi

638

3-30-32 Iris Sisyrinchium L. Kn I 395, Coste III 366 = bynandiris — L. Bas 447 Fl Porto-Pi. This and 3-24-32 in Bellver) the first time seen in fl. On bright sunny warm day no flo open 10-12 tho bud evidently ready to open & did so immediately after 1st when put in water at home. These withered by 7th pm. Plant may be bi-ill (Cate). St to 10 in high with lvs to 16 in. Perianth 35 mm long above the slender tube & equally broad when expanded. Outer Outer div. with large white spot at base of blade, the white spot with yellow spot at its base, & claw with yellow papillate striped down center. Several spathes on st to 2 or more flo from each spathe. Remains of yesterday's flo remaining as today's open.

3-30-32 Lithospermum apulum Vahl Kn II 307, Bas 322, Bon 222, Coste II 590 Fl. Common at Porto-Pi. Field east of fort.

3-30-32 Hedysarum spinosissimum L. Kn II 114, Bas 151 Coste I 412 = H. capitatum Desf Bon 91. Fl. Porto-Pi. Common to fort. (See 2-11-31 page.

3-30-32 Asterisecus aquaticus Moench Kuth 469, Bar 253, Bon 170, Coste II 356 Fl. Portol.: Stems only a tuft of lvs with sessile fl in centre, but lateral buds suggest that may become "alsinoid". Cf Kuth C. maritimus. Lvs light green, thinner more tender v with no apiculate tip of C. m - Heads (probably some of dead fls. now open) 12 mm diam, with blade of ray 4 mm long. Achenes very silky, scales very blunt & the interior ones ringed as dead 10-31-30. Whole spec. shows lateral branches well developing.

3-30-32 Urospermum picroides F. W. Schmidt Kuth 574 = U — DC. Bar 281 = U — Desf Bon 185, Coste II 421 Fl v adv. fr. Note bracts in wide alar margined as dec 3-14-30.

3-30-32 Valerianella echinata DC. Kuth II 435, Bar 229, Bon 145, Coste II 267 Fl v young fr. Immature heads

3-30-32 Fedium Calycinum Viv forma arenarium (see 4-18-30 & 3-2-32) Fl v adv. fr. This seems to settle the Calyx enlarges only slightly; bracts broad & oblique at base; lowest fls often extra-axilary. Carefully gathered E. calycinum Viv.

3-30-32 Koeleria phleoides Pers Kuth 307, Bas 499, Bon 360, Coste III-603. Fl. Porto-Pi. (See 4-18-30) No question of identity acc. to Coste. Awns on lemmas 2 mm. Lemmas show signs of being "tuberculose" later.

3-30-32 Catapodium loliaceum Link Kuth 313, = Scleropoa — Hack Bas 504, Bon 363, Coste III 625 = Poa — Hack Bih 539 Fl Porto-Pi. Identity seem sure acc. to Coste. Lemmas 3 mm long

3-30-32 Polygala monspeliaca L. Kuth II 143, Bar 56, Bon 40, Coste I 163 Fl. v. adv. fr. Porto-Pi. as desc. 3-26-30.

3-30-30 Frankenia

Early fl. Porto-Pi stands 3rd from car end to port. This is prob. same as ? F. laevis L. forma Salina of 4-18-30 & 1-2-31 then thought identified without question but now in light of Coste not so sure. Sts very branching & spreading on ground & puberulent. Many of the lvs white mealy underneath (mealiness scattered not continuous over whole surface) but some esp at tips show very little or none. Lvs contracted into broad short petiole ciliate with thick white hairs. Calyx glabrous, 4 mm high of which 3 mm is tube. Limb of petal 2.5 mm at most and oft when

3-30-32 when flowers, lvs half grown, the calyx exposed (even when pressed down for measurement) Petals pale (rosy or lilac). All the fls now appear to be "sessiles dans les dichotomies". All this suggests P. pulverulentum (ace to Cate): but contra while a few st lvs are oblong (7×3-4 mm) with edges only slightly dropping most of the lvs have edges as dec. curved under as to make almost tubular effect (very few lvs as a trifle narrower than 3 mm) spread flat. Petals have edges denticulate but not "emarginé". This suggests P. laevis as thought 4-18-32.

P. 637 [Kew identifies this as P. pinnatifidum Moris]
30-30-32 ?: Papaver Atlanticum Desf. Cate I 61 Ed V adv fr. Porto-Pi. Q indicated for Majorca in Kew Bar ident would be thought certain. Its smooth pod under at top at base ? P. pinnatifidum with which cfd to and more abruptly narrowed at base but not P. dubium because anthers deep yellow. Capsule very like ill (Cate) v lvs as nearly like as are other species to their ills. resp. Filaments filiform, purple. Petals (dried) pale pinkish with no dk brick color. Lower lvs to 9 cm broad and very dec bi-pinnate, the secondary div. broad v obtuse. Lower part of flat with spreading hairs, upper part with hairs closely appressed upward. Tops of fr. ats curved to horizontal position. Papyrine, lobes overlapping but no more so than in the 6-carped ? P. pinnatifidum.

3-30-32 #635 Papaver pinnatifidum Moris.
Identif. by Kew
636 [illegible]

3-30-32 Carduus leniflorus Curt. Ku II 487, Bar 266, Bon 177, Coste II 379, inc with C. pycnocephalus L. BvN 260. Fl & fr. Porto-Pi. Differs in being 1-0 in 2 tops & groups of heads subtended by bvs at least as long as head. No yellow glands (Bon & Coste)

3-30-32 Raphanus Raphanistrum L. Ku II 37, Bar 36 Porto-Pi
Bon 21, BvH 51, G 427, Coste I 93. Fl & unripe fr. Plant only 15 in high but to fr seems unmistakable. Largest pod now 25 x 2.5 mm, without partition, valves ly. moniliform. Petals clear yellow, veined but veins of same color. Pods almost appressed but usually curving out & long. Fls 9 mm high. No fr. has partition. This is prob. poor specimen & simply abnormal.

3-30-32 Raphanus sativus L. Ku I 64, Bar 36, Bon 21, G 427, Coste I 93 Fl & unripe fr. Porto-Pi. Plant 10 in high & root not thickened but to fr seems unmistakable. Largest pod now 40 x 3 mm, without partition, spongy. Ret. seeds but little or no constriction. Petals white & purplish beautifully veined in dark purple. Pedicels spreading & then [illegible] erect. Fls 18 mm high. Poloveny (Ky)

3-30-32 ? Valerianella Morisonii DC. ssp. eriocarpa (Desv. 3-18-32) Fl & unripe fr. Porto-Pi. Seems just the same as 3-18-32.

4-1-32 Astragalus ~~bactecoccus~~ (asperuus / see card) Kn II 105, Bar 139, Bon 82, Coste I 365 From Mrs Kennedy from Valldemosa. (only upper part of plant) Stipules 1 cm long with broad bases & very fine accuminate tips, the lowest pair joined at base on side opp leaf but the 3 pairs above alone by their edges but they have never been joined. Lfts to 31, oval, the largest 16x9 mm, sometimes very slightly notched & sometimes slightly apiculate (whether notched or not) but leaf is entire, glabrous above, with appressed white hairs beneath. Peduncles 2 axily infl less than ½ as long as lf (Ynic part. to 6 cm) Fls V-13 pale greenish yellow (might be called "blanc jaunâtre" (Coste) 9 mm long. Dif from desc 7 (3-6-31) in having no pink in standards, no purple on (this part) of st. Ovary very yellow pubescent.

4-14-32 Spartocytisus ~~hybrida~~ DC. Knth 441, Bar 296, Bon

4-19-32 Vicia. Fl Mrs. K. Tex
Seems same as 4-20-32 ~~Does not~~ V. lutea as Calyx regular Lower lip with 2 pairs of deltate teeth & upper 2 pairs of pulpits.

4-20-32 Vicia bithynica L. Knth 118, Bar 130, Bon 85 Boiss 139, Coste I 384 Fl from Mrs. K. Valldemosa.

Only upper part of plant and 4 fls 4/or
sometimes 5 with an odd one or two reduced 30+
mm x 6-10 mm. Fls 15 mm wall, 2 or fused ½ as
long as f. Ovary pubescent on edges.

3-30-32 Medicago minima Grufb. Ku II 73, Costa I 324 = M. — Lamk Bar 117, Bon 75 = M. — Barbalini Bot 112. Fl. Port-Pi. (see 1-20-31 evidently same). Plant spreading light on ground low pods all diminutive. Leaves at 20 hairy pods less so but not glabrous. Pods very spherical in appearance about 3.5 mm diam. Spines in ripe fr so def "alternies on canaliculées a la base" (Costa 232) that their edges make a flat base with a thinner membrane between.

4-3-32 Tarmus Communis L. Ku I 389, Bar #44
Bon 303, BvH #71, Coste #357 ♂ fl From Mrs. Kennedy, Valldemosa (Son Moragues) Close by only asmt v that deeply three lobed. 4-4-32 No fl or fr. Just gorge west of Benderat on back road. Lvs almost entire.

4-4-32 Geranium Columbinum L. Ku II 136, Bar 81.
Bon 57, BvH #96, Coste I 243, H 536. Fl Back path west of Benirate near gclaypit (same spot as 3-30-32) Note ste red, decumbent, spreading in circle with the bases acute and stipules very evident in centre of plant.

P 637
4-4-32 Cyclamen balearicum Willk Ku III 263, Bar 303
Coste #532 Willk I 6 Tab II. Fl Sa Cabana Cala Gorge & gorge west of Benderat.

4-4-32 Malva micaensis All Ku II 180, Bar 76, Bon 55, Coste I 236 Fl v emicpe fr. Field opp Cas Catala, hill Cfd with M. silvestris (1) v M. parviflora (2) Cordal Cemetery Cala Ratjada & much smaller than (1) but larger than (2). Petals slightly bearded at base but not heavily as in (1), blush coloured with darker veins. Bracts ovate broad (3-4 mm) oval asmt v as long as calyx. This seems def. identification. Staminal tube coated with tuberculate hairs, downward angled hairs, not starry. Lvs 5-lobed and more nearly as sharp as ill Coste. Fr all more def. pent. above, less so beneath v beginning to show reticulation. The largest asmt

4-4-32 alt. nat 1 Cen. diam, slightly depressed in center around the narrow (1.9 mm) low conical core.

4-4-32 Fumaria parviflora Lamk. Kn II 9, Bee 24, Bon 14 BoH 23 All II 35, Coste I 69 Fl v unique fr. Frequent in field typ. Cas Catalá listed. Fl white (outer petal green on back at tip, inner petals dark red at tip) 5 mm long, ~~if segg~~ emarginate crested, v sepals toothed (1 mm long), pod "attenué" at summit malar ident. sure. But sepals as ~~long as petal~~ hardly as broad as pedicel in fl v much narrower as the pedicel thickens in fr. to 1 mm.

P 638

4-4-32 Lathyrus saxatilis Vis Kn II 126 = L. — Bois. Bee 593 = L. ciliatus Guss Coste I 399, Bon 89. Fl. Cas Catalá gorge in bank, east side, below junction) path from Riera (R.B.K. seems to remember similar plant found there not to before but has no record.) (See also ? Vicia 11-14-30). This agrees with diag (Bee, Bon & Coste) in all except not dif. pubescent. The stipule (at ext L. to ovary) flattened prerect, hairy inside & glabrous outside seems to make it latyhere. Fl 7 mm long. Wings & keel white but standard veined & tinged purple enough to make the effect "azul pálido". Ovary glabrous, ovules 7. Calyx tube 2 mm, the 3 ~~upp~~ lower teeth almost as long, the 2 upper teeth a little incurved & somewhat shorter but the difference little apparent to eye. Plant both blue annual with very slender root. Main st. 14 in high, very slender, angled, glabrous, but certain very young

branches from lower axils not glabrous. St. now naked at base for 4 in. Lowest lf on petiole 25 mm & 3 4 lfts (perh should be 4 & 1 reduced) & terminal pair missing) 10 × 3 mm, oblong, narrowed at base & def 3-toothed at apex. Upper lvs 2-3 pairs lfts (often 1 lf missing) linear, acute 29 × 20 mm common. All petiolules ending in shortarvn ± 1 mm, & petiolet + rachis shorter than internode. Stipules tiny, "semi-affixed" - with the lobes very narrow, otherwise entire. Stipules & lfts & lowest bs faintly ciliate. Fls solitary on slender pedicels, 15-18 mm i.e. a little longer than the pet + rachis & lf. Art pt. Jart-iculation - well above middle - is a little arvn & 1 mm or more. The main st curves outwards from top frost fr a mostly axial w/ lines rising directly (but very slender (perhaps spreading) arc 2 sts naked till near top w/ here they bear bs like those on upper part of main st. Ovary stipitate

4-4-82 Centranthus Calcitrapa DC. Kuth 433; Bur 227 Bon 144, Coste II 268 Fl & fr. Cas Cabalá gorge. Fl 3 mm long 1 nerve on rounded side, 3 nerved not counting edges on flat back side (Coste to the contrary)

4-4-32 Valerianella eriocarpa Desv. var truncata Loisel & Bar Kuth 433, = V. truncata Bitter Bon 146, Coste II 368 = V. truncata Bar Boiss 2 30 Fl & unripe fr. Cas Cabalá gorge. St. branches in 2 at very base, the branches

4-4-32 branches so wide spreading as to be almost flat on ground, later branches also wide spreading but not so nearly horizontal. Sts def. hispidulous with short perpendicular hairs, evident to eye & touch. Lvs as desc 3-30-30 "B" and with hairs on edges similar to those on sts. Oldest fr. now 2 mm ♀ which ♀ is the oak like calyx limb. Limb acute, of new ♀ like all Cats B&B "B" 3-30-30 and 12-29-30 were the same. All with V. microcarpa lvs which fr is evenly pubescent not like this rough pubescent in lines.

4-4-32 Plantago Bellardi All Kn III 412 Bon 259, Cost III 147 see Bon P. — var. leptocephala Wallr Bas 381 I.-L. Portalo. Sts 2 cm high. Heads 2 fls.

4-4-32 Stroganemum Dalechampii F.W. Schmidt Kn III 51 K = Sch. — Desf Bal 281, Bon 183, Cost III 421 I.-L. Bet. Portalo & Cas Catala. Note lower lvs deeply & regularly lyrate, with terminal lobe almost rhomboid but rounded at top 2×2 cm, the lower lobes regularly decreasing to very small, the rachis narrowly winged, the lower teeth often purple. Upper lvs like lower on st. hair petiole broadly winged & clasping. Above these are the 3-4 almost entire or sometimes lobed lvs which form a clasping whorl around st. All lvs softly pub. Petiole & lower part of rachis whole def. white or sometimes suffused purple.

P 639

4-4-32

No fl. fr. in rocks in gorge which leads northward from west gate on road behind Bendimate. At mouth of cave on east side road ½-¾ miles from gate. No st., root not Col. Habit bluish green, thick, sheathing at base with a bladdery sheath lowest all. The first two lanceolate 7×1 cm entire. Later two similar, longer, but hastate with 2 narrow very acuminate lobes at base. This outline full size but other plants had two larger. No help from Barcelo or Coste. Dr. Schultz had already reported finding two blue this "in the back hills"

Prob young H. Arum maculatum

4-4-32 Vicia sativa L. var amplicarpa Bonn Kutt 116 = V. amplicarpa Dorth Bar 138, Bon 85, Coste I 383 Fl. v. unciforme fr. + subterranean flo. Near Clay pit on back side west of Bendinat with Geranium columbinum. (See 3-26-30 which was prob. the same) All but pale now 35×4 mm, almost glabrous. Ovules 8-10. Pubescence of plant sometimes slight.

4-4-32 Galium tricorne Stokes in With Kutt II 424, Bor N 228, ~~Bor 228~~ = G. — Stokes G 748 = G. — ~~with~~ Bar 223, Bon 142, Coste II 244 Fl rad. fr. Somewhere Cas Catalá — Bendinat - Cas Catalá. Plant 7 cm & still in leaf & with 1 fr. well developed. Pedunculos (as far) all 1-fld except one which is 2-fld. But everything else def. points to this.

4-4-32 Rhamnus alaternus L. Kutt 170, Bar 98; Bon 64, Coste I 276 ♀ & young fr. West gate of Bendinat on back road. Note this or tree seen frequently seen in many dif. places, only once has ♀ been ~~noted~~ observed before (4-30-30). Fl. bears very short underdeveloped stamens. The 3-partite style exerted but falling as fr. develops leaving a little flat-topped projection

4-4-32 Asplenium Petrarchae DC Kze I 254, Bas 522 Bon 380, Cost III 694 Sp. Either in Cas Catalá gorge a 4th gorge northward from west gate of Rendinat - prob the latter. 4 of 35 mm or so all. Rachis dark at base but def green from abt middle (Bas & Bon, Cost to the contrary) Rachis not at all winged & clothed (like 4 sq.) from base with glandular hairs. Lower 4 sq truncate at base, the upper ones slightly pointed.

P 640

4-4-32 Silene

Lilac #612 Fl of fr. Location as well as known.

[#612 ident by Kew as S. rubella L.]

4-4-32 Arctis pyramidalis L (See 3-26-32) Fl. bet Portals & Cas Catalá' White, anther pubilice & the faint est tinge of lilac at tips of petals

4-4-32 Scorpiurus

Fl & young fr. Cas Catalá gorge. This is decumbent form with [illegible] lower lvs close together (prob) same as thought 3-30-32 to be S. subvillosa. But note that in fr. only the 4 ridges on back are armed (and pointed, insertion of these projections clearly visible) the sides of lower valve of fr. smooth. (or the 5th & 6th ridges also slightly tuberculate leaving only 3 or 4 smooth beneath. Oldest fr. seems to be as clear for S. subvillosa in shape, spiral & in contraction bet. seeds.

"A" Fr almost glabrous

"B" Fr. even the spines softly pubescent

Note: The tall spec of 3-30-32 that I thought to be S. subcerata has fr. differing little if any from "A"

[6-8-32 Kew says "Kuantia integrifolia, probably, but specimen too young to identify with certainty]

4-4-32

From Mrs. Kennedy Valldemosa. Taproot slender (few fibres) as may be annual. Stem single, stout at base (1½+ mm diam) same diam as upper part of rt, tough. (perhaps woody) Stem naked for lower 2 in. where is a tuft of lvs. These packed closely together & to within ½ inch of ground, well; the broad petioles broad and at base seem to encircle stem in a shallow cup-effect. Sometimes this cup bears 2 opp lvs & perhaps sometimes more). Don't know whether to call this 1 of partial segments to base or 2 lvs) No stipules evident. These lvs to 35×4 mm over all narrowly oblanceolate, usually entire, acute, long narrowed to base, but in 1 case def dentate at apex & in another case with short lateral lobes near base. Cups of petioles closely overlap. This tuft of lvs occupies ¼ inch on st. Above them st is again naked for 1¾ in to what appears as a similar whorl of abortive lvs at apex. This section of st heavy with loose, mostly downward curved hairs. The upper lvs 5-20 mm × 2 mm scarcely narrowed at base (omit account of cup-effect) All lvs gray-green & more less obscurely with white hairs. Among these upper lvs are the fls (perhaps each of subtends one). Fl 5 or 6 mm long & hence much shorter than the outside lvs, the bud st central or at st as long as lvs (tracts) at center. Calyx & ovary very hard to determine but ovary not superior, perhaps enveloped in a short (less than 1 mm calyx

tube and not developing. At what may be top of calyx tube (base of corolla tube) are 5 ~~barbs~~ arm (1 mm or less long) with upward pointed teeth. Corolla tubular 3-4 mm long, divided to about ½ way into 4 (or 5 by the upper segs becoming 2) segments. Upper seg (or segs) def but much shorter than the lower making rather 2 lipped effect. Lateral segs like lower but shorter. Corolla greenish but purple tinged esp. on lowest seg. Anthers almost sessile, 2, at unto lobes (not sure if always same lobes). Style reaches to base of corolla lobes and is def thickly 2 lobed. Anthers attached slightly above middle of tube so thoroughly included. Corolla finely pubescent outside.

4-4-32 Hutchinsia petraea R Br. Kn II 30, Bar 41, Bon 33, B & H 4. Coste I 136 Fr. in all stages some shattering of fls. Seeds 1-2 in each cell (Coste 2") upper lobe with fewer lobes than Barcelo's "13-19" (Coste says 8-15") From Mrs. Kennedy, Valldemosa.

#641
4-6-32 Hippocrepis balearica Wulf. Fl. From Mrs. K. from Valldemosa

4-7-32 Rhamnus lycioides L. Bar 99 inc in R. oleoides L. Kn III 174, ~~Bon~~ VIII Pl V, Bon 64. Bud From Mrs. Kennedy. "above Valldemosa". This space approaches most nearly to #1904 of Kn III Pl V the short branches spine tipped, the largest leaves 9 x 2 mm or all, with very short but distinct petiole

4-7-32 petiole. Calyx div. 4 with 4 linear petal & stamen at each angle. Pedicels about 1 mm.

4-7-32 ? Arabis

Fl. From Mrs. Kennedy, Valldemosa (Sa Comuna) 3½ cm high. St & lvs covered with stalked, starry-branched hairs to near top, but upper most ¼ of stalks finely contractingly glabrous; Calyx with only a few branched hairs at top of sepals otherwise glabrous & with minute straight appressed hairs. Basal lvs in a thick rosette, the largest 10 x 5 mm (many smaller) obovate, some short petioled, others sessile, all with few teeth. St. lvs 6 reaching to base finely; sessile, oval-oblong, tho' less as much as basal lvs, rounded at top (as were basal lvs) less rounded at base but not at all auriculate or clasping. Inflorescence 7 mm high but shows signs of later branching. Pedicels now 3 mm. Sepals 3 mm, almost equal at base, oblong, rounded at apex & with white edges as viewed from inside. Petals cream-white shading greenish & gradually narrowing into claw, 4 x 1 mm (or possibly larger since these meas. taken from adv. bud). One petal found in apex. was 6 x 1+ mm with base of claw very slender. Petals rounded or obleque-truncate at top, entire. Pod will be longer than wide (ovary now 2½ mm. Too young to study otherwise. Fl. stem is at side of rosette of lvs; one st. has been broken off from another part of rosette & possible others are to appear.

4-8-32 Bartsia Trixago L. Kuth 395, Coste ## 49
= Trixago apula Stev Bat 347, Bon 238 Fl Terreno.
Ac (4-4-30) no yellow infl.

[F. germanica L. see 4-23-32]

4-9-32 ? Filago germanica L. var spatulata DC Kuth 451
prob F. spatulata Presl Bat 259, Coste II 334 ? Gnaphalium
spatulatum H. Bon 195 But see F. spatulatum Presl
Bot H 3d II 217 which seems different Fl. Terreno, back
ridge to Palma. Common. Same plant as species per Bat
3-14 & 4-4-30. and no further light on query as to whether
it is F. germanica as desc Bat & Coste.

4-9-32 Trifolium procumbens L (= T. campestre Schreb
Sm K I 405, # 509 = T. campestre Schreb Bon 77, Bot H 119, Coste
I 341 = T. agrarium L. Kuth 85, Bat 127 (but this is not T.
agrarium L. § Sm K. or H). Standard wings strongly
striate; standard strongly hooded & wings strongly
divergent. Central ft pedicellate. Corolla pale yellow,
turning brown as it reflexes in age. Heads 6-8 mm
diam. Peduncles to about 6 mm but terminal usually
longer than petioles, but top of head often hardly longer
than top of uppermost stipule (Coste). Plant ± appressed pubescent to-
wards tip. Stipules not distinctly ciliate (like 4-10-30)
and calyx glabrous except for 1 or 2 fine hairs
terminating some of its teeth. Fl. Terreno. Back
ridge to Palma.

4-10-32 Erica arborea L. Ku II 361, Bar 299, Bon 202, Coste III 313 Fl. Rd from Buñola towards Orient at cut just before 7.1 K post. Pedicels white. Exerted stigma a dark reddish-brown with 4 reddish-brown spots like quarters of circle. Cf with E. multiflora L.

4-10-32 Orchis mascula L. Ku 401, Bon 311, B & H 466, Coste III 402 inc. O. — L var obtusiflora Rchb Bar 458 Fl. Rd from Buñola to divide on way to Orient. Only 1 spec seen. (See 4-20-30). L was so freely spotted black as sometimes to show little green about. Sepals are more nearly oblong than ill (Coste) and obtuse (Bar.)

4-10-32 Linum angustifolium Huds Ku II 136, Coste I 331 (Bon.) = L. — L. Bar 74 = L. bienne Mill B & H 87. Fl Rd Buñola to divide on way to Orient in ditch. Fl 1 cm high. Anthers 1.5 x .75 mm (Coste) & Sepals 3-nerved (Coste), denticulate rather than ciliate on the whitish inner edges. [See L. usitatissimum L. 4-10 and 6-28-32] 6-28 and 8-2-33

4-28-32 Celtis australis L. Bar 422, Bon 283, Coste III 350 1-1 ft & 8" very young trs (all but 1 living base) Rd Buñola towards Orient. Some fls at least are 4-merous.

4-10-32 ?? Carex glauca Murr. Ku I 347, Bon 335, Coste III 505 = C. — Scop 237 nec. C — Scop var gemina Godr. Bar 480 = C. flacca Schreb BVH 519 Fl with Limum. (See 4-4 & 4-10-30) Seemingly pass in Bar [under C. recurvata Bivo. Bar 480 Coste III 515 which are since & scabs are allacuta & the lower ones have finely denticulate point below the [Cook]. But Considerably C. paniculata Coste III 515; BVH 517, Bon 337, K 287 to which this would be assigned if listed in Bar & Ku on strength of 1 only 5 spike & lowest bract (i.e. subtending lowest & spike) with long sheath. Las green not glaucous.

4-10-32 Tamus Communis L. (See 4-3-32) Fl of Bunsk Note: Anthers consist of the 2 pollen sacs side by side curved in half moon over top of filament, presenting 4 ridges as looked down from above.

4-10-32 Eruca sativa Lam Kuth 23, Bar 28, Bon 21, BMJ CP 389 Coste IK Fl. Rd from Bunsk towards Inca. Dif from plant common around Palma in that basal lvs are only ½-1 in long forming a compact little rosette, from which issue the stems 2-3 in long, the shorter flower lfless & flowers to base. But not E. vesicaria since calyx much longer than pedicel & fall as flower fades.

4-10-32 Populus nigra L. Bar 425, Bon 289, BM 429, Ull
#339, BMgCP 226, Cat #273 Very young fr. Cult along stream on
Rd Buzuala-Urient. Scales v young lvs shelving, shiny.
Lvs. in alt per a deca. Petioles minutely pubescent & fine
hairs on both sides. Lvs also thick, very leathery, glabrous. Rachis
& puff pubescent. Bract & catkin now 3½-4 cm
long (BMgCP & BM. Ull II says also later)

= V. cuneata Hort et V
(See Ku II 115 V. sativa f. pomeranica

4-10-32 ?? Vicia cuneata Guss Ku II 116, Bar 572,
Bon 85 perhaps = V. heterophylla Presl (= V. cuneata
A. L.) Cat #383 Fl & young fr. Among hay in Cote
I 3 #. The solitary fls seen; calyx regular with
equal teeth, pod sessile. So pubescent. Many branches
from basal spreading in sort of matted ground,
lower lvs 1-2 pairs of cuneate (1 pr 4x4 mm) with
rudimentary tendril 1 mm long; young fr. now
glabrous except for few fine hairs on edges. This
points towards #989-989. But this the short (less than
1 cm) tendrils on upper lvs are often simple, those on
uppermost are sometimes 2 or 3 parted. Yet this
group there per V. heterophylla since constrasts
that annual (not "vivace ou bisannuelle") fls
small (per 8-11 mm overall this whether when
studied) all stipules deltoid-cuneate on lower lobe and
apetal on upper lobe with stipule like all #989 (rather
than like #988). Calyx tube 4-5 mm, to teeth 2½-3 mm.
Lfts on upper lvs ± 7x2½ mm oblong, narrowed
to base, blunt or square tipped with def mucron.

On roots a few small lobed tubercles. St slender but stipitate, angled. All parts slightly pubescent. Fl v young fr. Rhodesia Buñola towards Quest

"B" Fl v immeadv. fr. Prob. same as above but st & ad. pf. punctate v parts pubescent, slightly ciliate. Oldest pods 30 x 5 mm.

4-10-32 Vicia sativa Lour amplicarpa Boiss (see 4-4-32) Fl v young fr. v cleistogamous fls. Rd Buñola towards Quest. The narrow linear acute lvs of this not at all like "A" v "B" above.

4-10-32 Platanus
Fl ♂ v ♀ Cult. Rd Buñola towards Quest. See B.M. C.P. 1399 prob. but P. occidentalis L.; P. orientalis L.; P. acerifolia Willd. ♀ heads 2; style + the hardly distinguishable ovary 5 mm long; stfl. 1 or both in an old head to be useful. Lvs young all tomentose, the youngest rusty.

4-12-32 Ulex aucheri ramosa ? forma ? the II 397-8 = Phelipaea ---- Bar 349. Coste III 63-4. Fl Pequeño. Calle Prob same species as 3-26 & 4-25-30.

4-13-32? Melilotus indica All Kn II 76, B&H 112 Ill II 125 - 9510, BMP CP 404 = M. indicus All S&K I 398 = M. parviflora Desf. Bar 121, Bon 76, Coste I 332 Fl. Sent by Mrs. Kennedy from Valldemosa. Fls fragrant 3 mm or a trifle less long, the standard just slightly longer than the wings & keel which are nearly equal & [illegible] difference wings & keel a trifle shorter than keel. Plant lorbroglatinous but microscopic olinos a few hairs St: rather stout, at least not "delgado" (Bar.). Pieces not over 12 in high. Lfts to 2 x 1 cm. Calyx makes a bell-shaped effect after petals fall.

4-13-32 Lathyrus saxatilis Vis Kn II 136 Fl. From Mrs. Kennedy from Valldemosa. Seems same as 4-4-32. Early fl has yellowish cast but standard blueish veins. Longest lfts 2 cm. and internodes only slightly [illegible] at all longer than petiole + rachis. ~~Style + thin keeled~~

4-13-32 Medicago arborea L. Kn II 76, Kn I 54, Bar 114, Bon 74 Fl & naturalized fr. Cult Called Sobol Terreno. Shrub about 5 ft. Fls rich (almost orange) yellow 12 mm over all. Pod now forming circle about 12 mm diam, apex touching base of calyx - middle one & those circles contact on one side & convex on the other. Pod about 5 mm wide. Calyx

5 mm with acute flaring teeth shorter than tube.

4-13-32 Medicago scutellata L Kn II 70, = M — all Bas 115 Bon 74, Coste I 324 Fl v adv. fr. Field on east side of torrente bet. Cath. Juanes y San Rapiña R'd. Largest fr now 13 mm diam. Lfts to 25 x 15 mm. Stipules large (to 16 x 6 mm) v lfy but much shorter than petiole

4-13-32 Arum italicum Mill (see 3-28-32) Fl. Torrente bet. Cath. Juanes y San Rapina R'd, same locus as 1-22-31. Lvs. def. black spotted v spathe with a similar small dark spot towards apex, otherwise like the usual A. italicum growing along side, ex cept peduncles & lvs slightly less vigorous.

4-13-32 Serapias parviflora Parl Kn I 410 = S. occulta Gay Bas 455; Bon 309; Coste III 386. Fl. Same torrente as above. This is "B" of 4-10-30. Carefully compared again with S. Lingua. found in same neighborhood.

4-13-32 Gladiolus illyricus Koch Kn I, 357 Bas 448, Bon 305 Coste III 391 Fl. Terreno - San Rapiña

4-13-32 Gladiolus segetum Ker Kn I 396 v. G. — Gawl Bas 448, Bon 305; Coste III 390. Fl. Terreno - San Rapina Same def as noted 1930.

4-13-32 Vicia tetrasperma Moench var gracilis Asch Koch 120 = V. gracilis Lois Bon 87, Bot 135, Cote I 390 = V. tenuissima Schinz & Thell Bot 211, 133, Bot KI 415 = Ervum gracile DC. Bas 141 Fl & young fr. in the little torrente bet. Cath. Luang & id & San Rufina Fl. 3-4 7-8 mm long. Some pedunkles with awns 2 mm or less; others awnless. Mature pod now 14 mm long (without stipe) x 3½ mm wide, glabrous. Seeds 5-6. Calyx teeth no more than ½ as long as tube, the 2 upper ones oblique & curved on upper edge to wide rounded sinus but teeth not greatly unequal in length. Stipules semi-hastate but the lobes entire. Tendrils seems always simple, rudimentary or very long & curly. Appale [illegible] pair, the [illegible] 20 x 2 mm. lanceolate def. acute. Lower leaves have 2-3 pairs 4 to 6 x 2 mm oval, base def. acute. Pubescence adaxial? 4-14-30. Style hardly flattened if at all dorsally hairy all around at tip (not def. tufted). Corolla pale bluish lilac, the standard veined (not strikingly) darker.

4-13-82 Vicia peregrina L. Koch 116, Bas 138, Bon 86, Cote I 382 Fl further south than above. Fl dark purple 15 mm long, on peduncle 4 mm long. 4 fls to 20 x 14 mm. 4 fls & calyx ex actly as ill (Cote). Lower tendils rudimentary & simple, the upper branching.

4-13-32?? Vicia cuneata Guss (See 4-10-32) Fl & young fr. Plant more lilac "B" (4-10-32) Sta. to 15in but don't know whether decumbent or not. Fls to 15mm. Rootlets with tubercles similar to "A" (4-10-32)

4-13-32 Coronilla Scorpioides Koch. Kn II 100, Bas 148 Coste I 405 = Scorpiurus Matthioli Dod Bon 90 Fl & adv. fr. Terreno - Son Rapiña. Largest pod now 35mm, very slender, curved, articulations hardly showing.

4-13-32 Geranium dissectum L. Kn II 137, Bas 81, Bon 57 Bvh 96, Coste I 346 Fl & very young fr. Terreno - Son Rapiña. Styles very glandular but ovaries very hairy with few or no glands. Anthers show dots plainly at early stage.

4-13-32 Vicia benghalensis L. Kn II 117 = V. atropurpurea Desf Bon 86, Coste I 388 = Cracca atropurpurea Boiss Bras 140 Fl Terreno, field at end of Calle de Salud. (See 4-20-32 doubtless the same) 17-31, often not plainly in pairs & sometimes an unpaired one at base of petiole or near top of rachis. Largest lfl 15 x 4 mm. Fls 19 or less on each pedunicle, opening almost all

4-13-32 almost all at once, 15-17 mm long, richly colored, the limb of standard when pressed (which is slightly clawed) maroon veined darker, the other parts bright purple. Calyx purple, pubescent, tube 4 mm the upper 2 teeth very short, the 3 lower 3 mm, narrow valvate (see ill Coste contato bey p 380) and so hairy as to give effect of plumeuses avant la floraison (Coste) Ovary stipitate very pubescent.

4-13-32 Convolvulus althaeoides L. Kuth 296, Bas 317. Bon 2017, Coste II 570 Fl. Terreno - Son Papina Rota Corolla stigme in longitudinal bands that were outside folds in bud.

4-13-32 Bromus sterilis L. forma machitensis Ku I 325 = B. machitensis L. Bas 509, Bon 367, Coste III 646 Fl Cathedral grassy tomente, [illegible] field nearest side north of quarry. Heavy sts from one fibrous root, to 43 cm in height. Inflorescent very like ill Coste & Bon) Fls usually 7 (Coste) Palea sparsely long ciliate toward tip.

4-13-32 Avena fatua L forma barbata Ku I 301 = A. barbata Brot. Bas 497. Coste III 391 Fl with above. 2/3 ft high. Culm bearing only 2 lower three short but culms several from same root giving effect to base of plant.

Panicle lobes lilac "rate" v is not def 1-sided except in uppermost part where it becomes a raceme (i.e. above the branches) Glumes 9-nerved, 2 cm long v the dark striated awns of lemmas extend 2 cm further. Hairs on lemma def. white. Lemma bidentate with fine points 4-5 mm long. No sign yet of articulation. Rachis v bony with long silky white hairs like lemma. Fls 2 with rachis prolonged v bearing rudimentary fl.

642

4-18-32 Lathyrus Cicera L. (See 2-26-32) Fl vaccine pk. Notes on this under unknown L. of 4-18-32. Terreno-Los Rapina

643

4-13-32 Silene Fl. Terreno. See desc 4-31-32
[Kew reports this S. ? gallica L. R.B.K. not wholly convinced]

4-14-32 ?? Linaria marocana Hort. ex J. BMJ CP 6750 v Sec Kuntze 60. Fl. Spontaneous in fl. pots in Rosa's garden. Los alt., lunar, sessile 25 x 2 + mm, many on lower branches. Racemes terminal v 4 fls. Pedicels 7-10 mm, subtended by narrow bracts 4 mm long, somewhat narrowed v white margined at base v slightly glandular-ciliate on margins (otherwise plant quite glabrous). Calyx 5 mm high, its lobes broadly margined at base with white (or purplish). Corolla 2 cm high (perhaps triple less) with slender, sharp pointed subtriangular spur fully 1 cm. Corolla rich purple, front lip & palate yellow with an orange-brown spot at base of each of the 2 folds which run from front of palate to sinuses in lip. Upper lip deeply cleft.

=S. — all Dc

4-14-32 Specularia hybrida DC. Kn II 441, Bar 296 Bon 197, ~~Bolt 229~~, Coste II 492 Fl from Mrs. Kennedy from Valldemosa = Campanula — L. BvH 287

4-17-32 ?? Vicia cuneata Guss (See 4-10 v 13-32) Fl young fr. Bellver. Fl 11-12 mm long v pale. Standard very pale lilac with faint darker veinings; wings lilac; keel much smaller, whitish with dark tip. ~~Fl~~ general effect pale pink. Plant erect and more slender & delicate than 4-13-32 but seems the same in essentials. Stipules entire Tendril 2-3 pacted as (4-10 v 4-13) Roots with tubercles as noted (4-10 v 13) Note Color & corolla exactly same & effect as in O. reclinata v Costa notes "purpurine" for both.

4-19-32 Ononis reclinata L. Kn II 67, Bar 109, Bon 72, BvH 110, Coste I 313 Fl v adv fr. Bellver. Note as in all other cases observed in Mallorca floral leaves 3-foliate.

4-17-32 ? Galium parisiense L. forme microspermum Kn II 422 = G. microspermum Desf Coste II 345 (For desc of G. parisiense see Bar 222, Gr 748, Sch II 632 Coste II 345; for G. anglicum Huds see Bon 142, BvH 222 I Coste, Bar v G. all say these last two synonymous but BvH "G. anglicum Huds -- by many botanists still regarded as a smooth fruited form of the continental G. parisiense. in which the fr. is covered with bristles"] Fl ~~v fr~~ Bellver. Three very slender sts, 5" in high from top of very slender root. St 4-sided, rough on angles with minute downward pointing bristles. Lvs verticillate in 6-7's, 5-6 mm x 1 mm.

much shorter than internodes except at very base, with minute upward pointing barbs on edges & mid-rib beneath & a few on upper surface near edges. Prof. Sill Cote for L. parviflorum, not found in Cuba & not mentioned in Cuba Cat. Spikelet is bud-like (not spreading open), greenish-reddish. Awary 1/3 as high, thickly covered with fine, spreading hairs but bearded at top

4-17-32 Allium subhirsutum L. var subvillosum Bat. & Trab. Kuth 370 = A. subvillosum Salzm. Bas 438 Fl. Bellver. Frequent in places on east gate. Same as desc 4-10 & 20-30. Anthers yellow & stamens longer than perianth. Lvs shorter than st. ciliate on lower half but not from middle to the very finely tapered point. Bulblets present.

4-17-32 Linum Bulbocastanum L. Kuth 236, Cote I 208 = Bulbocastanum mauritanicum Willk. Bas 205 = Carum Bulbocastanum Koch. Bon 132, BVN 191. Fl. Bellver. Same as 4-previous-32. But as pedicels are now very slender (see Cote # 1595 & 1596) this needs reconsidering (See 5-14-32)

4-17-32 Linum gallicum L. Kuth 134, Bas 73, Bon 54, Cote I 230 Fl. Frequent Bellver. Cfd with L. strictum L. Upper branches slender, naked flexuous & general airy effect very dif from L. strictum. Plant 2 ft to

4-17-32 aff to touch while L. stictum (thickly covered with lks) is rough to touch (top downward)

4-17-32 Bromus sterilis L. forma fasciculatus Kn I 325 = B. fasciculatus Presl Bas 509. Coste III 647 Early Fl Bellver. Sts 10 in. Infl 3-4 cm overall.

4-17-32 Orchis Coriophora L. Kn I 399, Bon 310 nec. D. L var polliniana Rchb Bas 458 = D. fragrans Poll Coste II 399 Bud. Bellver.

4-17-32 Festuca Myurus L. var destonensis Kn I 331 (Bas) = F. sciuroides Roth Bon 365 = F. bromoides L. Bub 554 = Vulpia sciuroides Gmel Coste III 630 Fl. Bellver. Slender sts 5½ in. with lf not quite to base of infl. Lvs flat 1+ mm wide. Infl 5 cm. narrow. St. lvs v. rachis all finely puberulent. Pedicels slender 1-3 mm. 1st glume almost setaceous 1⅓ mm, 2nd glume broad 4 mm high, scabrous on back sharp pointed (or might be said to have awn of ⅓ mm) fully as long (a little longer) than adjacent lemma. Lemmes 3½ mm with awn of equal length. Awn placed below apex which is sharp & poss 2-toothed. Lemma narrow. Palea about ½ as long. Fl 2-3. Stamens seem in most fls 2, but in one case 3. Aff plant dries to fls tend to stand apart as in ill (Coste) for V. geniculata. Anthers not ½ mm long. Ligule not "presque nulle" (Coste)

4-18-32 Ulmus campestris Sm Kn I 419 = U. —
L. Bar 423, Bon 283, BVH 45, BM/CP 233. G 345; Coste III 257
Fr. Just above last house on way to Castillo de Alaró. F 1/2 12-15 X
8-9 mm. Seed well above middle but not quite reaching
to notch which is completely closed by the intruding sides.
Young twig much like ill Coste's or less shorter pointed

644

4-18-32 Hippocrepis balearica Wulf
Fl Castillo de Alaró

P 645 [L. aphacricus Retz acc to Kew 5-2-32]
4-18-32 Lathyrus
Fl. Field east of Orient east of spring on path down from Alaro castle. Gl with L. aphericus Retz. White st. running just underground sending up branches at intervals but also bearing at top & short and at intervals along subterranean st. subterranean branches which thicken towards end & bear 1 (poss more) fl which tho' completely underground are fully formed tho not wide open. These fls are glabrous, Calyx white (like st.) standard & wings pink (not as strongly colored as in aboveground fls) keel red at tip, ab 6 striated, ovary glabrous, sessile, deeply grooved on back 1- (poss 2) ovuled. These fls 7-8 mm long. The aboveground ab 10-15 cm long, angled (perhaps could be called narrowly winged) & thin looking glabrous & glaucous bare few tubercle-base hairs on angles in upper part. Lvs all 2-foliate. Lft of lower lvs of stem very small (3 mm long) with tendril 1-1½ mm. The upper lvs of flattish petiole of 5 mm or less; the lft increasing in size till uppermost are 15-20 mm x 2-2½ mm wide, distinctly 3-nerved, with tendril (short on most at bot) on uppermost 1 cm long & curling but always simple. Stipule longer than petiole, half as broad above, the upper lobe to 1½ mm broad & 3-nerved (hence looking much like lft, the lower lobe narrower 1-nerved. Stipule otherwise entire except for 1 tooth in the very

shallow sinus between the lobes. (side away from petiole) Fls solitary on peduncles 10-15 mm (pros lengthening in fr.), articulated somewhat above middle (point of articulation marked by a hardly visible (20x) ear like point to but no scar tracts and scars no aroin. Fl. calyx brecked with no trace of purple the exact shade as L. aphricus x similarly veined, glab similar in that standard has lighter spot toward base of blade, glab similar in that standard is notched but the open fl produces a somewhat different effect in that the standard (perhaps slightly broader) is more concave x the twisting of the style throws the keel more or less askew. Fl 18 mm long! Pods along back x standard 12-13 mm broad. Calyx glabrous about 5 mm long, teeth equal, acute 3-nerved teeth are about 3 mm long. Style hairy on inside, def. twisted, ovary glabrous, stout attenuate, 2-ridged on both edges, so much so on upper edge that it may be winged in fr. Ovules 2-3.
No mention in any books of L. with subterranean fls x pods. Otherwise this seem to blend char. of L. sativus L. with those of L. aphricus Retz.
(14-13-32)
C.f. with L. Cicera L. which is similar in having twisted style but L. C. is larger in all parts: Pods to 8 cm x 5 mm; Calyx 10 mm (5 which teeth are 6 mm); upper tendrils long x branched. Corolla a purplish (not a bright) red.

P 646

4-18-32 Lathyrus angulatus L. var. pharaceus Kn. II 134 = L. pharaceus Retz. Bar 146, Bon 89, Coste I 398 (See 4-20-30) Carefully identd. L. ? 4-18-32. Fl. Pur. Det. Castle Clear Creek. Root not bol so can't tell if any subterraneans stos. Many branching stos from top of root. Lfts much longer & narrower in spec. the upper ones to 35 x ½ mm, the 3 nerves less distinct. Stipules likewise def. narrower & the 2 lobes almost in straight line but having the tooth (as in L.?) below minus should be. Pedunc. les slender (about 6 mm) & all def. curved with stiff straight awn 4-10 mm long, which is like a continuation of peduncle. Calyx much like (L.?) Style not at all twisted, ovary acicle without any 2 ridges or edges, longer & thin one counted on les 9.

4-18-32 Genista Cinerea DC. Kn. II 61, Bar 106, Bon 70, Coste I 301 Fl at gate where path from C. Allard enters plowed field on way to Clear Creek (at saddle) 1 bush only seen. Bushy-like as about 3 ft. high, lower parts bare woody, the ends thickly leafy branched with short erect twiggy branches these gray-green, striate, puberulent, now & then except as few young lvs appearing. Them alt. no stipules, simple, narrowed to 2 mm long, thickish, puberulent beneath with only few hairs above. The twiggy branches constitute racemes of fls (solitary or occasionally in 2s) Pedicels 2-3 mm, with 2 tiny bracts about middle, & what are perh the beginnings of young lvs.

at base. Fl 13 mm or so all. Calyx 3-4 mm silky, the 2 lips about equal, the lower with 3 short teeth, the upper widely & deeply divided about half way to base of calyx. (The lips can not be called "plus longue que le tube" (Coste). Corolla a soft yellow. Standard equal to wings or slightly shorter (about 1 mm) shorter than keel or standard sometimes seems equal to keel. Standard silky on back but wings & keel all are even more so (This not mentioned in Coste) Wings & keel def fall forward away from standard in later stages (Coste says not) Keel of 2 petals separate at base & apex and easily separated whole length. The slender style sometimes slightly exerted. Stamens plainly monadelphous. Ovary silky. Ovules about 6.

4-18-32 Geranium lucidum L. Kuth 128, Bas 82, Bon 57, Bol 95, Coste I 244 Fl & young fr. on wall where path from C. de Alaró comes down into fields east of Orient. Only place seen. Common by the C. Transverse wrinkles on sepals usually projecting flanges very conspicuous. Petal blade ± 3 mm claw about 4 mm. but effect is of claw proportionately longer. Claw with 2 salient ridges down center as has G. Robertianum L. with which compared.

"A"
4-18-32 Astragalus hamosus L (See 4-1-32) Fl & ripe fr. from Mrs. Kennedy from Valldemosa. Fr pale-brown curved & just as ill. (Coste I 365), the largest 15 mm from tip to tip & 3 mm wide.

"3"

4-18-32 Astragalus hamosus L. (See 4-1-32 & 4-18-32) Fl. Castillo de Alaró. Cfd with above & evidently the same smaller in sts pasts & decidedly "cruder as "A" seemed not. Lfts 8×4 mm. Fls 8 mm or less. Corollas of no plant yellowish; on another pale bluish-green isle.

4-18-32 Medicago arabica All. Kn II 75, BvH 111 = M. — Huds. Ap 510, BMgEP 404. = M. maculata Willd. Bar 117, Bon 75, Cate I 325 Fl. dn & wet tank Castillo de Alaró only 1 plant seen. Sts reddish with a spreading pubescence more obvious than books suggest. Lfts 10×3 mm (making broader leaf than usual in M.); small black spot very distinct. Young pods shorter than the very obtuse heads.

4-18-32 ? Medicago

Fl. Fillerup Orient last spring small path down from C. de Alaró. 1 plant only noticed. Attached at lemon because the fl-heads for peduncles longer than lvs / have 6-10 fls making more globular effect than usual in M. Sts low peduncles calyx dcd. pub. not bas & spreading hairs but not at all glandular. Sts spreading decumbent and reddish except at tips. Lfts obovate, 15×10 mm, finely toothed above middle, rather flat-tuck or rounded at top. All but tip pale-mucronate lvs tinged & veined reddish beneath.

Stipules dentate. Pedunculos 15-30 mm usually longer than lvs. with terminal awn 3 mm. Fl. clear yellow at first but later wings & keel begin to turn a rich brown giving head a bi-colored effect. Calyx 3+ mm long, teeth equal the 2 upper teeth divided obliquely downward from the under sinus so that there are no teeth directly on top. Teeth as long as tube. Pedicels ½ as long as tube, subtended by small caudate bract which rounded or toothed edges and apiculate at tip, makes almost a 3-lobed effect. Fl 6+ mm over all, standard def. longer than keel; wings def. shorter than keel. Ovary linear (showing no flange twisting) sparingly hairy slightly beneath. Ovules about 5, but there undoubtedly M. at same stage.

4-18-32 Arabis verna R. Br. Kuntt 32, Bar 35, Bon 36. Cote I 99 Flv adv. fr. Castillo de Alaro - Orient. Frequent on the north slope mostly slender to 3½ in tall & very few ft. Only occasional but stouter & taller & more ft on south slope. Flv 7 mm high & rather less across. Petals almost thus, (Albert pad now) Cam. exactly as ill Cote. Claw greenish-white Ovules show dots but no sign of seeds being "carencies" (Cote) Pubescence stellate.

4-18-32 Thlaspi perfoliatum L. Kuntt 16, Bar 40, Bon 32 Bv #45, A 425, Cotte 133. Flv adv. fr. North slope Castillo -

4-18-32 Castello de Alaró – Aurant. Frequent. Seeds about 2 to each cell.

647 [S. stellatum L. acc. to Kew 5-2-32]
4-18-32 ? ~~Sedum caespitosum DC.~~ Costa III, Bon III Fl v adv. fr. Castello de Alaró. Frequent at northend in vicinity of old fortifications. Sfm Kn. v Bar 183 must be S. rubens L. (which see in Bon & Cost.) but agrees much better with S. caespitosum in Cost. Differs from S. rubens as dense. Costa: not pubescent-glandulose (quite glabrous throughout) lvs not linear cylindrique 8e. 10-15 mm ~~Italics~~ ovoideis (oval or thick, never more than 5 mm long, very blunt & closely imbricated, attached near upper surface & adnate at base beneath. Cymes few fl – about 3-6. Petals 5-6. Petals not ariste but simply acuminate The red carpels (now unripe are wide spreading (Sp 8) more like a star than "corpe". Carpels (20×) show a little tuberculate effect only at very base & show trace of what may develop into "glosses on corpe".

4-18-32 Veronica arvensis L. Kn II 386, Bar 344, Bon 236, B & H 349, ~~Sp~~ 728, Costa 37 Fl v adv fr. Finca at foot of path to Castillo de Alaró. At time collecting some plants with fls blue; others with fls lavender.

4-18-32 Hutchinsia petraea R.Br. (see 4-4-32) Fl & fr in all stages. Castell de Alaro'. Cfd with H. procumbens Desv. & 4-18-32. Note: H. minuta by stony bared while H. procumbens has at quite glabrous.

4-18-32? Arabis sagittata DC. Bar 36, Coste I 100 [Km II 33 says all R. reported from Baleares, ex cept R. verna RBr, are forms of A. hirsuta Scop.] Bud Castell de Alaro' or on paths to or from. Whole plant def. long-hairy stalked branching basally. Basal leaves def. rosette oblong to 2×1 cm, short petioled, obtusely crenate, very round at tip, purplish esp as beneath where midnerve shows contrastingly green. St 6.5 cm high, purple v reduced to 2 cm above base, then thickly clothed with 12 lvs to base of infl. These st lvs oblong with sides almost ∥ v tip broadly rounded, erect, crenate, the base with def. auricles ∥ to st. Lowest st lvs 13 mm or more x 6 mm, the auricles 2 mm long. Lvs toward top progressively smaller but always longer than internodes. 2 ng infl will be branched as in Coste will of A. hirsuta. Pedicels v oblyx glabrous. Pet lanceolate.

4-18-32 Trifolium tomentosum L. Km II 83, Bar 127, Bon 78, Coste I 342 Fl v fr. At last house foot of path to Castell de Alaro'. In plenty. Exactly as desc. v ill Coste

4-18-32 Trifolium scabrum L. Kuth 82, Bart 34, Bon 79 Bo #117, Cost I 348 Fl. Between house mentioned above & Orient. Peloponat C. de Alaró. Seems only poss. although as in (4-10-30) has not at all coriaceous. Calyx teeth shg[illegible] corolla turns yellow with age.

648
4-18-32 Trigonella monspeliaca L. Bon 96, Cost I 330 Fl v amiga fe. Castillo de Alaró (See 4-10-30)

4-18-32 Daucus platycarpos Seop. Kuth 356 = Orlaya —— Koch Bar 92, Cost III 161 = Caucalis —— L. Bon 164. Fl. Field thru which path from C. de Alaró runs before reaching Orient. Plant quite glabrous. Bracts & involucre sometimes divided at tip with segments exactly like those of fl. Umbellate made up of few (1-2) short pedicels of fertile fls v several sterile fls (no ovary) on pedicels much longer to make all reach same level. Petals v white corollas on same plant. Calyx teeth sharp, acuminate; calyx on fertile fls pinkish v some of both sterile & ovary pinkish. Bractlets 5-7 mm. long, hooked at tip & between rows of bractlets 2 rows of short upcurved bristles. Fl with Scandix pecten-veneris which has not still more finely cut and which has similar arrangement of fertile & sterile fls.

4-18-32 ? Aurinia Arnithopodioides L. (See 3-30-32) Fl between Castillo de Alaró & Orient. Seems same as 3-30-32

except that lfts 4 pairs rem. & triple larger
Plants 4 in high

4-18-32 Anthoxanthum odoratum L. Kuk I 291, Bon #85
Bon 350, BuH 121, H 511, Coste III 539 Early fl. Field with
Daucus platycarpos.

4-19-32 Vicia
Seems same as 4-20-30. Fl from Mrs. Kennedy, Valldemosa. Not V. lutea L. as calyx regular. Lower
lvs. with 2 pr. obcordate lfts & no tendril. Upper
lvs with 5 pairs lfts.

4-20-32 ? Vicia bithynica L. Kuk 118, Bert 139, Bon 85, BuH
129, Coste I 384 Fl From Mrs Kennedy from Valldemosa
Only upper part of plant sent. Lfts 4 (or sometimes 6
with odd one or tendril) 30+ mm x 6-10 mm. Fls 15
mm overall, 2 on a peduncle ½ as long as lf. Ovary
pubescent esp. on edges.

There is no #649

#650 to E.W.K.

4-20-32 Lathyrus
[No further record kept. Prof was from E.W.K.]

[This is the desc. of S. pressed 4-13-32 as #643 which Kew reported S.? gallica L.]

4-21-32 ♀♂ Silene nocturna L. Kn I #66. Bar 09. Bon 43, Coste I 179 Fl v minipa fe. Terreno (bank road to Palma) Ident. largely because lf v fe looks much like ill (Coste) St 17 in high branched below middle v pub with hairs other branches from lower nodes. St finely pubescent with longer spreading hairs near base, hardly if at all glandular. Lower lvs as ill (Coste) round at top v ciliate towards base with long hairs which have articulations alternately thick & thin. Upper part of st has naked look because internodes much longer than lvs. Infl def. 1-sided. Fls alt & pedicelled & fls shorter than internodes. Corolla light pet. petals def 2 lobed. Albert Capsule nowhere on fr. pedicel at stalk 7 mm very like ill (Coste) Seeds rough on back (but rather raised in center not grooved) sides concave.

Specimen from Mrs Kennedy from Valldemosa is more glandular and has more branches from lower part. (some corollas no deserpt pale pink both sides but others dep white above and dirty greenish beneath.

6J1 [Kew identifies as S. apetala Willd.]

4-22-32?? Silene #620

Fr. Terreno. Common by roadsides. This is the S. 3-26-32 which was thought then to be same as #611 of 3-12-32. Seeds are dark brown, deeply grooved on back with red yellow ruffled (might be called winged but can not be Barcelo #151 & 152

because capsule 6 mm high (mc) here it is on a stalk 9 only 1 mm. Capsule very like ill 9 S. gallica L. (Crete) and ill 9 whole plant under this not impossible identification. But filaments not at all "velut ala base".

Plant many branched from base; branches decumbent at base. Note that lower st. leaves petd to 2 cm (ascending) while those at tip 9 stem are almost sessile. Note also that stem in case 9 these lower long-petd fr v sometimes in case 9 upper fr the bract (or lf) which subtends them subtends also and almost a quite sessile fr with a without bracts (lvs) at its base. So that inflorescence not a simple raceme.

All evidence seems to point def to S. decipiens Barceló Bas 61 which Ku calls S. sericea L. var apetala Ku Ku I 471

4-23-32 Ornithogallum narbonense L. Ku I 377, Bas 436, Bon 396, Crete III 317 Fl. Bellver. Petals dirt somewhat green veined inside, about 13 mm high. Filaments broad fr 4 mm, then narrow at once abruptly fr 1 mm and then very narrow fr 2 mm = 7 mm or all. Style almost exact length 9 filaments. Anthers v blue. Pedicels 8-12 mm thes very acuminate bracts as long or longer v making a little tuft above the unopened buds at top 9 raceme. Per seg not yellowing with age. St. 18 in height the 3 lvs only slightly shorter.

4-23-32 Ranunculus arvensis L. Kn I 494, Bar 20, Bot 11, 9398, Coste I 37, Bon 8 Fl v wellden fr. Terreno. Plant softly pub. in upper parts (Bar to the Contrary) Fr with long conical thorn on faces but smooth edge except for projecting beak, exactly spill (Coste)

4-23-32 Rapistrum rugosum Berg Kn 37, Coste I 141 = R. — All Bar 43, Bon 34 Fl v unripe fr. Terreno pr & dump at east end of Calle de Salud

4-23-32 Rapistrum rugosum Berg var orientale Boiss. Kn 38 = R. orientale DC. Bar 44, Coste I 141 Fl v unripe fr. Terreno. Pedicels with about one pair in Bellver. Pod has slender pedicel 5 mm long; lower joint is more slender than upper end of pedicel and 1 mm long; upper joint of pod is same size as in R. r — & equally rough tho ridges are more broken. Note upper joint rounded at top perhaps even more definitely than in R. r — but much the same which about equery about Coste's "atténué" v "contracté".

	R. rugosum	R. orientale
Fls	6-7 mm high (color same)	7-8 mm high
2nd & fr. pedicels	3-4 mm long (thick)	5-6 mm long (slender)
lower joint	3 mm long (thick)	1 mm long (slender)
style (beak)	3-4 " "	2 " "

These differences all suggested even in fl. See SvK III 133 agreeing with Coste, hence evidence of the abruptly contracted upper joint v disregarding Barcelo's thesis pr R. orientale (see 5-5-32

652

4-23-32??? Diplotaxis catholica DC. Kn II 17, Bar 567
Cruciferae Fl

Terreno. Roadside at end of Calle de Dos de Mayo. 12 in life zone, at sea level. Sts. from base, most flowering parts of pl. Plant glabrous. Lvs about 7×2 cm overall, deeply divided (to the narrowly winged rachis) into 11-15 linear segs. which are usually again deeply divided, the ultimate segs sometimes (esp. in upper lvs) entire. Fl. pl. somewhat like ill. (Coste I 93) of Sisymbrium Boplia. Pedicels of fl 3-4 mm, slender. Calyx green or yellowish 3 mm. Fl 6-7 mm overall. Petals bright yellow. Stigma rather large, cushion-like, not greatly unlike that of Erysimum virgineum DC with which also fl. What are now fr. to have lanceolate bracts in lower part and buds & branches in their axils. Young fr. spreading, now seem intending to mature, all lie plainly in 2 rows. Valves 1-nerved. Pod formed enough to show elongated shape. This seems only provided in Kn & Bar.

4-23-32 Carduus pycnocephalus L. Kn II #87 Bar 266, Bon 177, Coste II 319 Fl. Terreno Cl. with C. leucanthemus Cent. Dr C. p — sts more slender & so narrowly winged as to seem almost naked at top. Heads almost sessile or on naked peduncles to 1 cm. Heads 3½ cm high, the florets projecting beyond involucre by 5 (or more) mm. Lvs subtending groups of fls small (much shorter than heads.

4-23-32 Carduus leucanthus Curt. (See 3-3-32)
Fl. Terreno. St stouter than C. p— def winged to top. Lvs subtending groups of heads longer than heads. Heads 2 cm high, the florets projecting very slightly beyond involucre

= F. canescens Jord. Cat. II 324

4-23-32 Filago germanica L. Kunth 457, Bss 258, ~~Bss~~ Bor VN 238, ~~Cat. II 324~~ = Gnaphalium germanicum Willd Bor 173 = Gifola germanica Dumort 1819 Fl. Terreno. This is one commonly seen up to now stiffly erect v. imbranched at base.

4-23-32 Filago germanica L. var spathulata DC. Kunth 451 = F. spathulata Presl Bss 259, Cat. II 324, Bor N. Ill II 217 = Gnaphalium spathulatum N. Bor 173. Fl. Terreno. Spreading v. decumbent branched from base. Habit very diff from above.

4-23-32 ? Allium fragrans Vent Kn I 374, Bss Bor Cat. I 342 = Nothoscordum — Kunth Enk B. & F 476 Fl. Rondeña mentana y Infantado y later in Bellver. This seems only poss. in Cat. agrees with desc. except that anthers are yellow instead of ft. Perianth never pure white v. quite greenish at base. Very like A. Cat. J. But white but in brown tunic the base of which bears the roots

thicker (i.e. higher) than scapes naked in onions & bears bulblets (inside tunic) at its top (i.e. at base of bulb.) Bulb has odor but not of onion. Fls faintly fragrant. Filaments broad almost to apex.

4-23-32 Ruta chalepensis L. Kuk II 140, BM JCP 442 = R. angustifolia Pers Bar 94, Bon 63, Coste I 269. Fl. Bellver. Frm gradually unarmed & prebl. pedunclea finely pubglandulas & bracts not large tho' similar as at. Blades ovate acuminate, dentate, 4×3 mm, almost sessile & clasping.

4-23-32 Briza maxima L. Kuk I 314, Bar 681, Bon 363, BM JCP 120, Coste III 622 Fl. Bellver.

4-23-32 Podospermum laciniatum DC. Kuk II 542, Bar 282, Bon 186, Coste II 424. Fls. Bachelot to Palma. Sts seem spreading or ground. Plant pale gray green & wool to 2 cm high with pappus slightly projecting. Achene whitish, grooved & with bulb base (not conspicuously diff from achene) 14 mm long.

[4-24-32 Raphanus sativus L. Coste I 73, Bon 21, 4437, Bar 26. Fl & fr. Fr. Ctedge of field on way back near Palma. Studied but not recorded until much later.]

P 653

4-24-32 Hippocrepis balearica Wulf (See 3 Y 85-32) Fl v adv. fr. Bañalbufar at look-out tower north of town. Many plants seen in fl along road just further north. Plants in fl also seen on rock just north of Turrens Club at Alette at tunnel south of Bañalbufar.

P 654

4-24-32 Astragalus Pterium Vahl. Kuntze 105. Bar. 134 Fl v young fr. Bet. Andraitx & Tunnel on way to Estallench (across depression from limekiln site). Alkaffe 6 mm v wide more than 1 mile developing. Ped. suture makes no depression monticle but is well developed inside. Alkpod 6 mm long (calyx is 5 mm) v split into 2 parts along suture (which shows moderate monticle)

P 655

4-24-32 Lotus tetraphyllus Murray Kuntze 105, #L. — Lf. Bar. 132. Fl. Arvoral slope south of town.

"A" P 656

4-24-32 ?? Silene decumbens Bess Bar. 569 inc in S. cerecea All forma ambigua Knoche Kuntze 469 (Pons same as 3-4-30 A and as 3-23-32 #628.) Fl. Andraitx road to and Estallench (where S. Rupestris & S. Hamperi Vandas 15 mm diam, pale rosy pink above, the same tinged slightly with green below. Lower lvs vary greatly in size in def. plants but largest about 30 x 3 mm, obovate-lanceolate

broadly acute, petioled, upper lvs linear & much branched. Branches ending in racemes of 3-6 fls. Calyx 15-mm high, umbilicled, handsomely nerved with purple-green anastomosing nerves. Teeth ciliate. Claws slightly longer than calyx. Petals deeply cleft, v. the white scale obtusely 2-lobed. Anthers just exserted, greenish. (Ilkest fr. now 5 mm high on petals of 5 mm. Ovules shown no sign of being winged. Bracts & calyx fl. always 2. [Prob 3? see 628 of 3-23-32] purple-tipped

B.
4-24-32 Silene 657
velvet
Bud, just north of tunnel on rd. Andreas - Estallenchs
Plant differs from "A" in that lvs generally tend to be broader, but bud looks quite like bud of "A". Ill fed 5 mm or a tad of 5 mm. (Ovules show no sign of being winged
[Query: Could this be S. glauca Pourr.? See note 5-11-32

4-24-32? Crupina vulgaris Cass Kit I 505, Bon 181 Bat 271, Coste II 399. Bud. Rhenea Estallenchs. 6 in high. The lowest 2 lvs + bracts entire 23 x 13 mm overall. The next few lvs with very rather broader than those of upper lvs, which are very narrow. Stem deeply ridged, especially top bears terminal head & 2-3 (plus pronunc) lateral heads near tip. Bracts & involucre purple-tipped glandular. Fls only 2 in the one head opened. Style up to infl. Note lvs on the margins are enlarged at top (Bon 183)

4-24-32 ? Tragopogon porrifolius L. Coste II 435, Bon 186, B+H 366, 4864, B.H. Gen. 755. L. See Kuth. 541 for T. — var australis, which Kuth thinks Bas. meant by his 702] Fl at edge grd north Kundrait x. Not Geropogon glaber L. because peduncle not "étranglé sous le capitule" (Coste), all achenes with plumy pappus, marginal ones not with propus 5 simple veins (Coste & Bar), beak not rough or hirsute" (Coste), receptacle not fimbrillifer (Bar) Also as desc Coste & Bon not T. australis L. or T. crocoflorus L. because fls all purple & thus) circumference reaching fully to tips of involucral bracts. Sts 18 in high. Upper st. lvs 10-15 mm wide at base, gradually narrowing to long tapering point 1-2 mm wide. Certain amt of cobwebby wool at base of lvs & on buds in axils. Outer achenes more rough, inner ones more smooth, but beak smooth with a little woolliness at top.

4-24-32 Scrophularia Canina L. Kuth 370, Bar 336, Bon 231, Coste III 5. Bud, Kundrait x - Estallenchs. Ofl ats very atp & green. Lvs shining. Capsules to 5 mm. Infl with 2 short branches with fls in axil as well (Coste & Bon). Ofl with S. peregrina L.

4-24-32 Dorycnium hirsutum Ser in DC. Kuth 102 - Lotus hirsutus L. Bar 129 = Bonjeania hirsuta Rchb. Bon 81, Coste I 256 Fl Rd [illegible] which goes down to Estallenchs south N.E. Fls 13 mm or less. Standard

narrow wings ~~not~~ free. Each wing with a little outward tuck in about the middle of its upper edge, making thus a longitudinal depression on its flank.

4-24-32 Cerastium lanceolatum Scop forma Cirnitanum Kuth 489 = C. cirnitanum Boiss ~~Bor. 260~~, Bon. 195, Coste II 371 Bud Rd Andratx - Estallenchs. (1 or few only seen) Low diff. decumbent v rough on top v white woolly beneath in shape quite as C. 1- remembered. Heads attracted attention because bracts & invol. conspicuously pedunculate, their tips (a.t.s.) not "réfléchis au sommet" (Coste) = C. cirnitanum Boiss var catalaunicum Wk. Bar 265; Willk III 20.

4-24-32 Medicago
Flv fr Estallenchs, common at least in some places. Pd 3-6 mm diam, very flat with 2-3 loose coils, the upper one very small. Pedicels 2-5 fl usually shorter than lvs, not aristate. Might be M. apiculata Willd Bar 116 except that mucro are longer than keel. Note can't find syn for M. apiculata Willd in Boiss or Coste. But ace to Coste I 336 this might be M. polycarpa Willd = M. lisiputa Loisel. Spines, usually both 1 or only 1 def longer than distance between them. Plant glabrous; stipules finely cut. Rd Blackish green ripe

4-24-32 Globularia vulgaris L. var major Webb et Kuntze 402, Bar 388 See G. Linnaei Rouy = G. spinosa Lamk Coste III 168 Fl. Rock just north of tunnel on rd Andraitx-Estallenchs. Lvs thick vqueen, almost entire, often oblique at base. The 2 lobes of upper lip of corolla very short & insignificant Receptacle of head inf. narrowly conical.

4-24-32 Vicia bithynica L. (See ? 4-20-32) Fl. Andraitx-Estallenchs Lowest lvs of 1-2 pairs of small obovate lfts as does B & V Bar

4-24-32 ? Lathyrus Clymenum L. var articulatus Ait (See 2-26-32) Fl & young fr. Exactly same as 2-26-32 Standard midrose & wings deep blue but style not at all aristate (it is obtuse at tip with edges slightly rolled forward) & the pods (largest now 25 mm long) show no sign of being channeled on back.

6:8

4-24-32 ? Lathyrus setifolius L. Kn II 135, Bar 146, Bon 89, Coste I 398 Fl & adv. fr. Andraitx-Estallenchs rd. Seems only pass in any books but disagrees with books which disagree with each other. St 4 to 24 ft weak, decumbent or ringed (Bar says "no angulosus", Coste says "angulosus") glabrous, glaucous. Roots & stk below ground bear small colorless underground fls (no

mention of this char. for any species of L.
L is all 2-foliate, the lowest with simple (often very short) tendril, the upper with branched & much curling tendril. Petiole 3-15 mm (seem to vary without def. reference to position on st. but uppermost usually short.) Stipules half arrow shape otherwise entire except for tooth in sinus. Upper lobe about 8 mm [hence often as long as petiole (Bon. & Coste)] the lower lobe narrower. Lfts 3 upper lvs 6-8 cm long & 3-5 mm wide distinctly veined, those of lowest lvs about 2 cm x 2.5 mm. No lvs "setaceo" (Bar.), but might easily be called "lineares-allonges" (Coste). Fls solitary on slender non-aristate peduncles 2 cm long (i.e. longer than petioles & shorter than lvs). Peduncles with short upward-curved hairs, and articulate near top. Fls bright red (same as L. aphacricus) 10 mm overall (when withered). Calyx glabrous, 4 mm long the teeth about equal & equal to tube. Bracts shaped as ill (Coste & Bar), the largest (rare) 25 x 9 mm with 2-3 seeds. Pod def. stipitate, puberulent on edges, not at all channeled on back, very flat (rare) Style twisted. Note: the rounded at & breadth of lfts are the only real stumbling blocks in identif. Cfd with L. aphacricus with its narrower lvs & def aristate peduncle and with L. Cicera with its pod channeled on back.

4-27-32 Helianthemum guttatum Mill Kn II 200, Bon 36, Coste I 148, Bol H 37 = Tuberaria variabilis Willk var. Bar 48 Fl. Bellver. 7 mm high. Sunset but below beneath and sepals spotted dark in that the tubercular bases of the hairs are dark, this may be var. plantagineum Willk. Bar 49. this the uppermost leaves to 15 mm long (hardly bracteiforme) Note also that "foliolesdel epicalix" while ciliate are certainly in some cases nearly "lampiño" on the surface. No bracts in infl (B v Hill shows bracts) Plant looks shaggy from the long white hairs mixed with shorter ones. Petals with dark spot.

4-27-32 Anonis [illegible] viscosa L. var breviflora Kn II 64 = O. breviflora DC. Bar 109, Bon 78, Coste I 314 Fl Bellver. Light fresh green Lower leaves all 1-foliate (as Coste suggests Bar to the contrary) the 1ft oblong-ovl 35X11 mm, intermediate 3-foliate, uppermost 1-foliate Arcus to 15 mm, surpassing calyx

4-27-32 Echium creticum L. forme maritimum Kn II 389 = E. maritimum Willk Bar 328, Bon 223, Coste II 593 Fl Bellver. Lower lvs 1-nerved very like ill (Coste) not like E. plantagineum with whitish infl. Flo dark purple, same shade as E. arenarium Lins

~~and~~ with which ~~of~~ but much larger. (to 17 mm
rrr all the corolla ~~exceeding the Calyx~~ twice
length of calyx and dilated at mouth much like
ill (Bor.) but not as oblique as in E. plantagineum
and stamens hardly exserted. St. & lvs very
hairy with tubercle based hairs but lvs not rough
to touch. But note that some of lower fls are extra axillary
(Coste & Ber say not). No sign of "anneau intérieur à
écailles soudées" (Coste) whatever that may mean.
Only the pores in Barr is E. sericeum Vahl. But
stems no more "superficieras en arc basi" than in
other E. so far studied. St 4 in long, prob. decumbent.
Prob was growing by Bellver castle wall west-
ward from entrance E. plantagineum (a
small plant) & E. asperatum (a large pale)
near by.

4-27-32 Lavatera maritima Gouan Kit II 178 Bar
76, Bor 56, Boiss I 239 Fls young fr. Sent by Mrs Kennedy
from Valldemosa. Very white woolly shrub. Leaves
soft to touch. Fls 5.5 cm diam. Peduncles about 3.5
cm. = petiole.

4-27-32 Medicago orbicularis All. Kit 170, Bar 115,
Bor 74, Coste I 324 Fls & immature fr. Sent by Mrs Kennedy
from Valldemosa.

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4-28-32 Micromeria biflora Benth var Rodriguezii Knuth Kn II 346 = M. Rodriguezii Franq. Bar 360, Kew (see 7-5-32) Prof. Pignatti with M. nervosa & mistaken for it until Rewised identified spec. 1 (7-5-32)

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4-28-32 Micromeria nervosa Benth Knuth 351, Bar 360 (See 2-24 & 30 & 1-6-31) Fl Terreno Banana. Fls full formed, Corolla bright pink, 4-5 mm across the lobe 4 mm long & projecting somewhat beyond Calyx. Corolla 2 lipped, the upper lip slightly notched, the lower deeply 3 lobed. All lobes rounded. Stamens arco-ascendent, the anterior ones longer. Stfl terminal (ie no stfl of Loabosa as noted 2-24-30). The stamens bracts hardly longer than pedicels.

4-29-32 Convolvulus siculus L. Knuth 397, Bar 316, Bon 218, Coste II 569 Fl From Mrs. Kennedy from Valldemosa. Flyoung fr. Fl common all.

4-29-32 ? Oenothera speciosa DC. Knuth 405, Bon 249, Coste III 69 Pl Same as 4-25-30 & this & Alfacena beautiful. But stigma is purplish-yellowish even in bud. Filament hairy at base inside. Corolla very handsome with its purple tongue & veins.

4-29-32 Allium subhirsutum L. Knuth 370, Bar 438, Bon 298, Coste III 389 Fl Bellver n-w of wall. Cfd with A. subvillosum Salzm No likelihood of confusing.

4-28-30 Lathyrus annuus L. Kn II 135, Bar 146, Bon 98, Coste I 397 Fl v young fr. From Mrs. Kennedy from Valldemosa.

4-29-32 Erythraea miarteina Pau Kn II 286 Bar 314, Bon 213, Coste II 551 Fl. Bellver. Corolla rather light yellow, a little darker inside but not "amarillo rozado" to malaxat. Barcelo var erubescens Willk Fl 20-25 mm overall v corolla lobes 6-9 mm. This v the cotile color seem quite dif from E. pulchella 4-30-32.

4-30-32 Malva nicaensis All (See 4-4-32) Fl v abo fr Cas Catalá fill opp hotel. Cfr with M. parviflora, M. rubusta v Lavatera cretica. Note: fruit can be told from that of M. silvestris by (1) bracts bo mes calyx at some distance abo base & (2) calyx tube comes up one side of fr. more definitely.

4-30-32 Sedum stellatum L Kn II 40, Bar 181, Bon 110, Coste II 111. Fl v young fr. Cas Catalá - Portals.

4-30-32 Polygala monspeliaca L. (See 3-30-32) Clo. fr. Cas Catalá - Portals east path. Wings turning a fine purple.

4-30-32 Erythraea pulchella Fries Kn II 281, BVH ~~III~~ 312 = E. — Nam Bar 313; Bon 213; Coste II 553 = Centaurium pulchellum Druce 4656; BVH III 348 Fl. Cas Catalá. Sts 7-8 cm or less high. 2-3 mm wide. Corolla lobes 5 mm long. Fls 15 mm high overall.

4-30-32 Teucrium botrys L. Kun II 322, Bar 373, Bon 256, B&H 373, H 693, Cate III 136. Fl. Coast path Cas Catalá - Portals east of little beach with tall blooms (where path turns strongly upward). Plants 8 cm high & ample to 7 cm high & branched. All parts covered with white globules, hairs glandular tipped. Lvs 5-10 mm. Fls 1 cm across, solitary or in 2's in axils of lvs.

4-30-32 Bartsia Trixago L. (See 4-8-32) Fl. Cas Catalá. Upper lip reddish; lower lip clear yellow fading to reddish-yellow. Cfd with the ones with red-white fls now very common & do differ except in color.

4-30-32 Orobanche ramosa L. Kun II 397, B&H 334, H 740 = Phelipaea ramosa Mey Bar 350, Bon 341, Cate III 63 Fl. Coast path bet Las Salinas & Portals. Cfd with the P. sem commonly in Terreno & elsewhere thought to be P. cassia Rent (See 3-26 & 4-25-30 and 4-12-32.) Ident chiefly by the branches from its thickened base St thicker & darker than P. cassia. Corolla gray with blue marks making a pale blue effect. P. cassia is bright blue with darker veins. Both have white folds which end in sinuses of lower lip but these much more obvious in P. cassia by contrast

Stigma yellowish. P. caesia has stigma pale white. Both have calyx with 4 equal very acuminate lobes. Mouth of corolla rather broader than high. P. caesia has corolla mouth rather higher than broad.

4-30-32 Sisymbrium Columnae Jacq Ku 19, Bar 34, Bon 24, Coste I 94 (See 12-10-30) Plant "velloza, de un verde oscuro". No question of identity. Longest pod 10 cm Flo 6-8mm high.

4-30-32 Sedum rubens L. Ku II 41, Bar 183, Bon 111, Coste II 111 Fl. Cas Catalá - Pabulo coast path in little beach with bath houses. Old world ? S. caespitosum DC. (See 4-18-32) sent by Mrs. Kennedy from Valldemosa Lrs glabrous, to 17 mm long, cylindrical, obtuse. Calyx, petals & carpels glandl-pub. & stamens fl. carpels show signs of being tuberculate.

5-2-32 Medicago tuberculata Willd. Ku II 70, Bar 115, Bon 94, Coste I 327 Fl yp. with below. Fr coiled counterclockwise (Bar). mucro def. shorter than keel (Coste) (Bar to the contrary)

5-2-32 Medicago orbicularis All. (See 4-27-32) Fr Terreno. Back side to Palma.

5-[illegible]-22 Coronopus procumbens Gilib. Ku II 18, Q 426 = C. Ruellii All BvH 49 = Senebiera Coronopus Poir Bon 33, Coste I 140 = S. — Pers Bar 42. Fl v.fr. Terreno near shore.

5-2-22 ? Bupleurum semicompositum. Ku II 234, Bar 205, Coste II 265, = B. glaucum Rob & Cast. Bon 131 Early bud. Terreno.

5-2-22 Spergularia media Pers. Bar 92 prod = S. — Fengl Bon 53 and S. — C. Presl # 379 and S. marginata Kittel Coste I 223, BvH 3 III 104 and S. rubra Pers var ? marginata Ku I 458. Fl v.abd.fr. Terreno on jetty just east of Disinfecting house on shore. Seeds to 1.5 mm diam, flat & broadly winged with white transparent membrane. Largest pod 8 mm. projecting 2 mm beyond tips of calyx. Inflor glandular but not very glandulous. Leaves fleshy but hardly semi-cilindrical (Bar). Thickened fruiting pedicels 5 mm long (see BvH 3 III). Petals seem no longer than sepals. Stamens 10. All with the S. with winglees seeds found commonly in Terreno.

5-3-32 L ptterum lycopsifolia L. Ku# 217, Bar 172
Bon 106
BotH62, Gr 592, Coste II 91 F-l from Mrs. Kennedy from Valldemosa

5-3-32 Spartium junceum L. Ku# 39, Bar 105, Bon 69, Coste I 294, F-S. — Lam BM 3 CP 421. F-l. from Mrs. Kennedy from Valldemosa.

5-3-32 Filago gallica L. Ku II 452; Bar 359, BotH 239 = Gnaphalium gallicum Huds Bon 172; = Logfia gallica Cos. & G. Coste II 325 F-l. Bellver. St. simple 10 cm high, dichotomous at very top (like left hand branch in Ill BotH) leafy to top with very erect, awl shaped leaves about 1 cm. long the uppermost surpassing the heads. Outer bracts of heads enlarged saccate at base, enclosing achene (so it can not be removed) Remains of filiform tubular corolla showing on three but no pappus. Inner bracts plane. Flo in centre of receptacle (no bracts between them) all have pappus. Bract all obtuse (scarious yellow at tip) quite different from Filago germanica L. with which cfd.

5-3-33 Centaurea melitensis L. Kn II 499, Bar 368, Bon 179. Coste II 396 Bnd Terreno, Back side to Palma. (had been found also 4-30-32 Cas Catalá - Portals) Calla Colng fls not yet apparent but the decurrent bro-malary-winged st. & the branched spines & involucral make ident. sure. Whole plant somewhat sticky to touch.

5-4-32 Melilotus sulcata Desf. Kn II 74, Bar 120, Bon 76, Coste I 332 Fl & adv. fr. Terreno field opp. Hotel Royal. Plants sturdy 20 in & more high with fr. looking too large for M. sulcata. but since the fls are 4 mm with standard a little shorter than keel & fr 4 mm (See Coste) and very closely & regularly concentric wrinkled it can not be M. infesta Guss, the only other poss.

5-5-32 Anchusa italica Retz Kuth 303, Coste III 584 = A. Valley fr. — L. Bar 320, Bon 221 = A. azurea Mill BMJ cP 6 28 Fl. On grainfield west of Porto-Pi for Fl. old enough to show that it is true as long as wide (Coste)

5-5-32 Cistus Clusii Dun Kuth 198, Bar 46 = Helianthemum umbellatum Mill Bon 35, Coste I 147 = (accepts Knoche Halimium umbellatum Spach Bar 47. Fl Porto-Pi Bushes in full fl. Carefully studied but unable to place it better in either Barceló #1102 115 which he calls the same. Infl very lilac ill (Coste) Fl white with yellow centre, 15 mm diam.

5-5-32 Bartsia arsecoa L. Kuth 396, BvH 350, Coste III 49 = Eufragia — Benth Bar 348, Bon 239 Fl. Hill paths Porto-Pi — Bonanova. Carefully cfd with Bartsia Trixago of 4-30-32 (both the red & white and the red & yellow kinds) and seems dif altho' the corolla is very similar in shape & has the same distinct folds which end in the sinuses of lower lip.
B. Trixago has its linear nerves more than 5 mm wide & with inconspicuous lateral nerves on bracts; Barcoa. has def oblong to 10 mm wide, lateral nerves plainly branching (three towards base of fl.)
B. Trixago has bracts of spp. (making 4 sided effect

to infl.) broadly ovate at base & abruptly tapering to long point.
Briseora has bracts alt (infl not 4-sided) & exactly like the upper lvs.
B. Trixago has calyx swollen, 7-8 mm long, cut four ways to about middle & on sides very slightly into obtuse teeth; veins hardly visible.
B. viscosa has calyx tubular (not swollen) 10 mm long, cut more nearly equally into lanceolate teeth. Veins apparent.
B. Trixago has fruit. anthers purpliish.
B. viscosa " " " " white.

5-5-32 Seabiosa stellata L. Kutt 439, Ber 234, Bon 148, Coste II 278 Fl. Porto-Pi.. 2 in high. Crown more 4 mm wide. Corolla pale purplish - not at all blue.

5-5-32 Cuscuta epithymum Murr Kutt 298. Ber 318, Bon 318, B & N 318, Coste II 575, 676 Fl. Very common Porto-Pi. Seems often on Erica multiflora.

5-5-32 Frankenia pulverulenta L. Kutt (Ber 3-12-32) Fl Porto-Pi. Cf. both F. laevis & F. intermedia. Dif. from F. laevis in that (1) while edges of lf often drop they are never revolute & touching so that lf not visible beneath, and lf beneath much more dif. mealy than the mealiest of F. laevis (2) Fls. sessile in axils of

5-5-32 axils of st. or in lfy cymes terminating short branches making more scattered effect than in F. laevis where they are grouped at ends of branches. (3) Corolla exceeds calyx by only 1 mm so that fls look def. smaller and edges not denticulate

5-5-32 Frankenia hirsuta L. forma intermedia Ku II 190 = F. intermedia L. Bar 57 = F. intermedia DC. Bon 40, Coste I 165 Fl. Fl. Porto-R. Cf with F. pulverulenta & F. laevis. Dif from F. laevis in that (1) plant presents no sprawling unkempt appearance with branches repeatedly branching & longish naked internodes alternating between the short lfy tips; instead the branches are almost (5-8 cm) & simple with tufts of short lvs regularly & closely together making whole branch lfy & (because lvs are longer towards tips) the outline of branch grows wider towards to tip. (2) and since these lfy clusters bear fls (they are really very short branches) the st tends to present a spent & elongated inflor. (3) sts are def. velvety (in F. laevis, glabrous or only puberulent) & calyx def. hispid (in F. laevis, glabrous) (4) the darker green lvs & the calyx often red gave plant a darker more bronzy effect than F. laevis (5) Corolla brighter colored than F. laevis but almost as large, edges like F. laevis denticulate

5-5-32 Frankenia hirsuta forma laevis Ku II 191

= F. laevis L Bar 5-7, Bon 40, BVH 60, Coste I 165.
Fl. Porto-Pi. See the two above for Comparison.

5-5-32 Spergularia media Pers (See 5-2-32) Flv
fr. Porto-Pi on rocks below fort.

5-5-32 ? Spergularia rubra Pers. Kn I 456, Bar 71 Bon 53, Coste
I 225 = S. rubra J & C. Presl BVH 78, Ledeb 378 Flv fr.
A. Prostrate on rocks with above below Porto-Pi fort. Glabrous
below, glandular-pubescent above. Stipules about as wide as long
and 10-15 mm but as long as internodes. Calyx with dark
spot at each sinus. Seeds about 3/4 mm minutely
tuberculate and (when dried after taken from
fruit) show a def. thickening on the rounded edge.
B. Plant from roadside Infanta 8. Taller, greener
with both leaves & internodes longer but seems otherwise
the same.

5-5-32 ? Spergularia rubra Pers var diandra Kn I
457 = S. diandra Boiss Bar 71 = S. sanguinea Fenzl
Coste I 224. Flv immature fr. Prostrate on rocks with S. media
below Porto-Pi fort. Very slender & filiform, 6 cm high,
plant reddish-brown. Stipules white very long acum-
inate. Stamens 3. Infl short but dichotomously
branched with a flower in axil.

5-5-32 Argyrolobium argenteum Willk & L Kn II 57 = A. linnoeanum Walp Bar 07, Bon 71 = Cytisus argenteus L. Coste I 304 Fl vadov. fr from Mrs. Kennedy from Valldemosa. Differs from plants seen before in that standard is orange area beautiful burnt orange & that besides the terminal few fls there are three appearing solitary in axils (or perhaps these are on exceedingly short axillary branches)

5-5-32 Euphorbia terracina L. Kn II 153, Bar 415, Coste III 343 = E. provincialis Willd Bon 281 Fl v fr. Road from Port-Pi Cove towards Fort (not far from Cove) Poor specimen which had begun at top but evident as only species with long points & smooth fr & seeds. Lvs practically entire. Seeds easily white when dry, the carnucle an elongated body attached by short stalk (near one end) to the truncated top of seed (not at all cap like) & otherwise free from seed so that it can be swung around with the stalk as axis. Lvs more like ill (Bar) than (Coste) Capsules reddish from early stage.

5-5-32 Heliotropium curassavicum L. Kn II 301, Bar 327, Bon 226, Coste II 608 Fl. Porto-Pi.

5-5-32 Rapistrum rugosum Berg var linnaeanum Kn II 28 = R. Linnaeanum Boiss & Reut Bal 44, Cat I 141 = R. rugosum All ssp. hispanicum Thellung SVK III 133 Fl & young fr. Porto-Pi road from corn to Fort at corner & vacant ground east of fort. Ident by Cat and SVK by upper joint of pod def. tapering to style. Smallest fr. pedicelled 5-7 mm (not as slender as in R. linnaeanum; lower joint of pod 1½-2 mm (a little thicker than pedicel. But note also that fr, esp the upper joint is very rough hairy.

5-5-32 Ornithogalum narbonnense L. (See 4-23-32) Fl. Porto-Pi on mound at east side of fort (1 spec) and on slope where path from west of fort meets highway west of Porto-Pi (several specimens) Cat Catala

660 Lit new identifies this as S. cerastioides L.

5-5-32 Silene

Fr in all stages Porto-Pi west of fort in section where Sonchus spinosus is found or just beyond its inland limit. Sts, lvs & Calices tend to reddish (a.t.s. Rt erect, branching at top many branches (oldest branches again near base or an occ simple) decumbent at base but with tips ascending. Whole plant hairy but no sign of glands. Lower lvs oblanceolate or almost linear the largest 15 x 4 mm. Branches fld from near to Going long

5-5-32 near base in raceme, each flin axil of one of two opp lvs, these lvs decreasing in size till uppermost are 3 mm long. All are linear, like lower lvs blunt at tip. Only flow apex and a few withered at tips of branches (no seeds fully developed). Flow bud calyx 8 mm high, narrow tubular, narrowing to base & contracted at apex; 10 red veins (whitish between) with some cross veins towards apex but can't say if def. anastomising. Calyx not umbilicate, teeth def. ciliated (apart from ciliate base) & thin. Withered corolla perfects only 2 mm beyond calyx, limb dark as tho' had been reddish but scales & claw greenish. Limb 2-cleft to the scales & scales 2-lobed. Filaments glabrous. 2nd fr. calyx much the same but swollen in middle, the tips of teeth slightly spreading (tho calyx contracted at top) & very slightly longer than capsule. Capsule just before opening 7 mm & conical at top on glabrous carpophore of 2 mm. Seeds less than 1 mm, deeply hollowed on side & slightly ~~bulged~~ hollowed on back, with pimply markings enclosing small raised lozenges with longest dimension crosswise of seed. Seed dull brown, edges round. Flo so slightly pedicelled that (except the upper ones) look sessile. Anth very blue ill (Coste) & S. gallica + (but filaments not "velues à la laine"), & not at all blue ill (Bon) [All Bvtt no help]. If not S. gallica the only poss in Bar seems S. ceratioides L. Bar 569. Note fr. not usually all turned to one side but more & less alternately from one side to the other & except in very lowest

all longer than subtending lvs.

5-5-32 Conclina spinosa DC forma Cervicornis Kuntze 538 = S. —— DC var cervicornula Lange Bot 387 = S. cervicornis Nym Willk I 28 Tab XV. Fl. Porto-Pi west of fort. Fl heads 1 cm long on short stout pedunculate scapes on lower part of stem & leaves spiney sts and below this topo.

5-5-32 Erythraea maritima Pers (Sec 4-29-32) Fl Porto-Pi frequent. This is var rubescens Willk & Bar 314. since upper surface of corolla is flushed salmon color. Cfd with spec of 4-29-32 & also with E. pulchella Fries very frequent Porto-Pi.

661 ?
5-5-32 Erax pygmaea Pers (Sec 3-2-32) Fl. Porto-Pi 1st house west of fort (dog house). Carefully cfd with the short almost stemless few headed specimens so common at Porto-Pi and seem to the same in scales vfs etc. [Note the inner scales of all now opening & make a 5-pointed scarious star at top of each head, the remains of fls sometimes still attached & making a little tuft in center.] but differs from the Erax usually seen in the slender branching stems with many fl heads making a compact mat.

5-5-32 Vicia tetrasperma Moench var. pubescens Bon & Delay. Kntt 120 = V. pubescens N. Bor 87 = V. pubescens Link Coste 390 = Ervum pubescens DC. Bal 141 Fl & young fr. From Mrs. Kennedy from Valldemosa. St. lvs & calyx def. pubescent; pod less so but not glabrous. Lfts 3-4 mm wide and all but very uppermost def. obtuse. Calyx teeth def unequal & gradually longer than tube.

5-6-32 Convolvulus pentapetaloides L. Kn II 297, = C. pentapetaloides L Bal 316 Fl. From Mrs. Kennedy from Valldemosa. St & cauline gray-pubescent with appressed hairs. Naked (now) below middle lvs alt, oblong-lanceolate, very blunt at apex, rounded at base & broadest just above base, pub. (capabove) with long-iside scattered hairs. Peduncles 1-fld. axillary 8-12 mm. Fl. brother 1 cm across all. Calyx lobes broadly ovate, hardly acute, almost coriaceous. Corolla blue with tube yellow Pubescent on 5 bands on outside, these bands ending in rather def. triangular points.

~~5-6-32 Ivicia varia Def form glomerata~~
~~(Kntt 5-11-32) Flag~~.

662

5-9-32 Arenaria balearica L. Kuk I 451, Bar 69, Coste I 311. Fl Roadside just south of Esterel. Fls 8 mm diam, 5 mm high, daintily conspicuous above the matted foliage. Pet. gland-pub. Sometimes lvs. st & calyx reddish & then the under side of lvs shows a broad green band down center. Lvs oval to ovate, not "suborbiculaires" (Coste) Lvs to 3 x 1½ mm. Ciliate only at base of petiole & fatal, when young with a scattered hair on upper surface but tend to grow glabrous.

663

5-9-32 Gymnogramma leptophylla Desv. Kuk I 360 = Grammitis ——— Sub Bar 528, Bon 378, Coste III 682. Sp. On rock near where trail to Torch Blanche[w] from highway. The shorter basal lvs (Coste) non-withering.

5-9-32 Asplenium Petrarchae DC (See 4-4-32) Sp. Bot on rock lower part of Grd Lunel-Cainas with Allium subvillosum

664

5-9-32 Galium setaceum Lamk Kuk II 423, Bar 577, Bon 142, Coste III 245. Fl & fr on rock with above. Thought when collected to be saxatile? G. parisiense L. forma microspermum of 4-17-32 Bellver. Plant grayish green & very delicately slender. Pt. not col. Lowest lvs 4 mm long all) x 2.5 mm ovate - obovate & rounded to apex, narrowed to petiole

upper lvs (much shorter than internodes) 10 mm x 1/2 mm (v less) edges when studied being somewhat revolute. Infl as ill (Coste) with 2 bract at base of joint from which lowest pedicels arise (no other bracts in infl tho ill shows them) which is longer (often more than twice as long) as infl. Corolla 1/2 mm or less long, reddish (perh more red than G. 14-17-32. Lobes erect & subobl. Ovary 1/2 mm long, thickly covered with white hairs (hardly visible at all for lens) which make ovary white even to eye. Specimens col. perh on new hill but lvs only 5 mm long but otherwise the same.

5-9-32? Stachys germanica L. Kn II 339, Bar 367, Bon 253, B & H 368, Coste III 120. Rad. Rd (new) from Loch Blan toward Isle Ornsay pas. with stalked glands. Anther cells end to end as in Salvia. Woolliness is starry. ? Phlomis italica Kn 334 = P. Smith Bar 368 see 6-13-32.

? 665

5-9-32 Torilis leptophylla Rchb. Kn II 237 = Caucalis leptophylla L. Bar 104, Bon 124, Coste II 168. Fl v unripe fr. Roadside. Vens rd beyond Kilmuir. Fr. armed, compressed laterally & each channelled on inside (as seen by cross-section) & lvs 2-3 pinnate. Inflorescence as in Coste II 145-6 must be Caucalis ? Torilis. Fr. now 5-6 mm (Coste says T. only 2-3 mm). Also the peduncled umbels, sessile stigmas & lvs with no long terminal seg. seem to rule out all pres T. (Coste 163-4). St. glabrous to eye but def rough to touch with short down-

5-9-82 down pointing hairs. L v small y near base x very like ill of C. laricoides L. (Coste) Lambela usually 3-rayed sometimes 2-rayed. Rays equal or nearly so. Outermost stolpedunles 6-8 cm. fert rays about 2-3 cm. Involucre; involucel of several linear bracts as long or longer than pedicels (in fl.) ~~x~~ so covered with hairs as to hide that they show no really def. lines. Bracts roughened with rough hairs on top of this last most obvious in fl [Rio] Y (Bor) Identity practically sure. Plant about 1 ft high [Fr as rembled much encumbered like Tilia europaea]

5-23-32

5-9-82 Ranunculus bulbosus L. Kn I 490, Bas 11 Bon 9, Bv H 10, # 398, Coste I 81 Fl. New to'd beyond Lluch.

5-9-82 Althaea hirsuta L. Kn II 181, Bas 78, Bon 56, Bv H 91, Coste I 241. Bud New to'd beyond Lluch.

5-9-82 Specularia falcata DC. Kn II 442, ~~Bas 296~~ = S. — All. DC. Bas 296, Bon 197, Coste II 493 Bud. New to'd beyond Lluch. Several plants 3 in high, ~~One~~ single plant 9 in high with several spreading ~~to~~ branches from near base ~~Stems~~ Stems & branches & downward pointing prickles (perhaps only near base) Bon 197

5-9-82 Arenaria trinervia L. var pentandra Coste? Kn II 454 = Moehringia pentandra Gay Bas 68, Coste I 208. Fl v fr. Near Gymnoramma. Plant in

general aspect much like A. teineriva L. as known 1931 in Switzerland. Lvs 3-nerved (Bar. says 5) not ciliate except a base of petiole. Sepals beautifully white-margined, 5 lvs with 2 or 3 nerves. Minute petals (1 mm) sometimes present. Seeds bear appendage like A. teineriva.

5-9-32 / Asperula laevigata L. Kuz II 416, Bar 225, Bon 143, Corte II 255 Bud. Lluch but don't know whether beyond or on road to Caimari. Plant rising from horizontal running root-stock (Corte says not), at dividing into several branches near base. Sts glabrous, smooth, somewhat twisted, sharply angled, the angles being slightly lighter color. Lvs in 4's, oval, to 13×6 mm, rounded at very short apex, narrowed to very short petiole, glabrous except for short hairs on edges which make them look rough (20×) but not rough to touch. Lvs 3-nerved but lateral nerves difficult to see except on young lvs. All lvs have a tiny lighter colored spot at very tip on upper surface (esp. visible in young lvs) & some younger lvs softly mucronate. Inflorescence axillary (now very young ovary) glabrous. Plant very like ill (Cat.) and seems the only Rubiaceae in Bar with lvs like this.

5-9-32 Teucrium lancifolium Boiss Kuz II 320, Bar 372 Oldfield. New to beyond Lluch. Lvs fragrant when crushed.

5-9-32 Bupleurum aristatum Bartl. Kn II 284, Bor 131, Coste II 204 = B. opacum Lange Bar 206, BvH 194 Fl Rd beyond Lluch (at tunnel loop).

665A

5-9-32 Trifolium glomeratum L. Kn II 84, Bar 125, Bor 78, BvH 117, Coste I 346. Fl. Lluch (before after). 1 spec only Cal. Lvs conspic veined very sharp teeth. Calyx lobes broad (almost cordate) at base. Requires Identity Fl pale, almost white. Fl head 8 mm diam.

5-9-32? Tonilis heterophylla Guss Bar 195, Bor 125 Coste II 164 Rd Lluch (pass recrd beyond) Ident. chiefly by the upper lvs much dissected (Coste) Lower lvs def 2-pinnate with lobes deeply cut, quite unlike upper lvs. St almost glabrous & smooth to touch Lvs rough with appressed rep. pointing hairs. Involl. none. Rays 2, rough with hairs as on lvs. Petals rose red with the same obj hairs as ext. side. Calyx teeth evident. Ovary too young to show nature of spines on fr.

5-9-32? Lens nigricans Godr. Kn II 122, Bar 573 = Vicia — Cos & Germ Bor 87, Coste I 391 Fl & young fr. Recrd beyond Lluch. Tendrils reduced to short (1 mm) awn. Lfts ~~2 or 3 pr~~ 2 pr on lowest lvs 2×2 mm, 3 pr on upper lvs, oblong 11×2-3 mm. Fls solitary

on filiform peduncles (equal to or longer than bud) which is articulated near top but not aristate. Fls 4 mm across all. Calyx tube 1+mm, its teeth 3-mm, tips of teeth reaching to tip of corolla. Young fr as ill (Coste), the carpel now 8×4 mm & appressed hairy. Pod stipitate.

5-9-32 Scrophularia canina L. (Sec 4-24-32) Fl. seen ½ beyond Kluch. Seems to agree with ill & desc. in all particulars except that lobes of corolla are conspic. edged or bordered with white very striking against the dark maroon of tube. Staminode narrowly linear, the slightly exserted filaments glandular.

5-9-32 Vicia bithynica L. (Sec 4-20-32) Fl v. adv. fr. seen ½ beyond Kluch. All dest fr. now 30×9 mm very like ill (Coste) & rather more square at the tip. Seeds 5-6, hilum 2 mm long. Seeds not conspic from outside of pod.

5-9-32 Lathyrus setifolius L. (Sec 4-24-32) Fl v. adv. fr. Pod not veined (esp as viewed from inside) seeds tuberculate. St. as in rugosus & style as broad as (4-24-32) style only slightly ↓ if at all, twisted. Seen ½ beyond Kluch

5-11-32 Silene glauca Pourr.
Fl. Not seen by R.B.K. Col. by Mrs. Kennedy in Valdemosa region & identified by Kew & kept by Kew. Mrs. K. collected at the same time and growing with the plant sent to Kew another S. which she assumed to be the same. This she kept. Book X p. 171 Jan 1932 herbarium.
In Sept (14-18) 1932 R.B.K sees this specimen and finds it so very like her # 686 which Kew names S. sericea All. that she can see no difference.
Query: Could Mrs. K's May 11, 1932 sent to Kew (i.e. S. glauca Pourr.) have been like R.B.K's # 657 April 24 (not submitted to Kew)?

5-9-32 Lathyrus angulatus L. var. sphaericus (Rec 4-18-32) 1-2 v. adv. fr. Illect pod now 45 × 5 mm the fine veining (viz a sort of longitudinal herring-bone effect) obvious.

5-9-32 ? Crepis bulbosa Tsch forma Willkommii Burn v B. Kn III 531 = Aetheorhiza montana Willk. Bar 289, Willk I 25 Tab XII. No fl or fr. Collected by accident part on new id beyond Luck. Very like ill (Willk). Runners very slender; leaves narrowed to capillary petioles. The only bulbs white, 3 mm diam. Leaves thin v. very smooth, sometimes with a few of the waxy globules on under side as noted on ?? C. bulbosa Tsch 7 (1-29-31). Sign of bulb and locality make ident fair table.

5-11-32 Limodorum abortivum L. Kn I 414, Bar 463, Bon 309, Coste III 419 Recd from Mrs Kennedy from Valldemosa

5-11-32 Cephalanthera grandiflora Bab. Bar 463, Bon 308 = C. pallens Rich Coste III 412 = C. latifolia Jaubert Bor 455 = C. alba Simonkai 8 K I 168 [Kn I 412 seems to me this with C longiflora Fischel-rolioide Coste, Bor and 8 K are as synonym for C. ensifolia Rich and other species]

Fl. From Mrs. Kennedy from Valldemosa. Lowest bract 5 cm (leaflike) & like the calyx it much longer than fl; even upper most bracts longer than ovary.

5-12-32 Ophrys — Sent by Mrs Kennedy from Valldemosa as O. apifera and accepted as such without study, later on seeing an undoubted O. apifera she thinks this probably was O. arachnites

5-12-32. 666

Fl. Porto-Pi. Same as unknown #384 (1-2-31). Glabrous very smooth to touch. Lvs sometimes when lightly bruised have a rank odor suggesting rue - but sometimes not & seem odorless when crushed. St to 3 ft very lfy. Lvs alt, sessile, palmately cut to very base into (usually) 3 main divisions, these sometimes again cut palmately almost to base and always deeply cut into narrow linear lobes, the lobes of the main divisions being 2-3 mm wide, the general effect much like that of Cetraria cephalus (Coste I. 32). Lvs at most 5 cm from base to tip & spreading fanlike. Tips of lobes acute & begin to dry early. No def. stipules; but younger lvs bear short, awl-shaped scales which would be considered stipules except that they are found between the primary (palmate) divs of lvs as well as where stipules should be. The solitary fls terminating short (1 cm) branches are surrounded by involucre (?) 10-15 mm high & same aspect as lvs but simpler in construction. Segments of involucre (?) so welded with bases of pedicels that they do not separate off like bracts. Ovary superior

5-12-32 superior, surrounded by a slightly lobed disk outside of which are the stamens & still outside the petals & sepals. Petals & 5 distinctly separate parts (if opened wide would look like a Ranunculus but all seem have been erect) oblong 12×4 mm. These are thickened in bud & regularly overlapping (outer edge over inner edge) & greenish faintly tinged salmon-yellow. When open in fl. petals is nearly white but tinged green at base & on nerves. No sign of any organ which could be called a corolla. Stamens about 15. Filaments 5 mm long & irregularly fleshy at base, Anthers linear 4 mm long, basifixed, yellow, heavy, spherical 3 mm high, 3 celled with many ovules in each cell on axilary placentae. Style + stigma 7 mm high, 3-parted more than half-way to base. Note: Juveniles ± glandular on inner surface & perh. this and not bis furnish the odor mentioned earlier in desc.

[Peganum Harmala L. of Rue Family identified by Kew]

5-13-32 Lythrum Graefferi Ten Kn II 316, Bak 172, Bon 106, Cost II 91 Fl. River at Establishments. This is plant seen before without fl. & fr. & perh same as ?? 4-20-30 (not sure about 11-3-30). Lvs to 35×12 mm. Fls 15 mm diam. Calyx 6 mm high. Style exserted, stamens hardly so

5-13-32 Veronica Anagallis L. Ku II 384, Bar 345 Bon 235; Coste III 32 = V. Anagallis-aquatica L. BUH 347, #737 Fl v unripe fr. River at Estatlimenta. Style 3 mm long.

5-13-32 Vicia Ervilia Willd BM 1 CP 392, Coste I 391 = Ervilia sativa Link Bar 142 Fl v fr. Field (1 plant only seen) bet Estatlimenta v Son. Bon 87 Fr much more strongly constricted than ill (Bar v Coste) Lfts usually 15-17 pairs.

5-13-32 ? Linaria Commutata Bernh. Ku II 372 Bar 340; Coste III 16 = L. graeca Chav. Bon 232 Fl v very young fr. In uncult. field bet. Estat. v Son. Many slender, stiff stems spreading on ground. Plants joined by rooting runners (runners stiff v as thick as main tap root) 2 cent 1 in long (effect not as running as ill Coste). Sts. not rooting. Whole plant gray green with long, soft spreading hairs which are mixed with shorter gland tipped hairs. Lvs v (often to n beyond middle of st.) opposite. Largest lvs about 10×5 mm, much as ill (Coste v Bon) almost always a little hastate at base. Pedicels filiform, glabrous, about 7 mm (often equal to lvs n in upper ones longer, only in very lowest shorter than lvs) and often curved at apex. Spurs [illegible]

5-13-32 Corolla indeat base, narrowed to very slender, much curved tip. Corolla pubescent outside, upper lip bluish, the rest violet-ish (or tinged with blue) with definite purple dots on palate. Corolla (from top of peduncle to tip) lower lip 7 mm long; from tip of spur to tip of ~~lower~~ upper lip 10 mm long. Spur longer than corolla tube. Cleistogamous seeds (esp. as they dry) seem def. tuberculate. The only objection I have to this identification is that fls are not "grandes" (Coste "10-15 mm"; Bon "8-11 mm" but not same here these measurements taken) & fact that not reported common in Mallorca. Only other poss is L. lanigera Desf. the objections to which are (1) lvs. ~~dep.~~ [2] seeds tuberculate. (3) peduncles shorter than lvs. Etc [Not L. lanigera see 6-16-32]

5-13-32 Linaria lanigera Desf. (See 6-16-32) #668

669
5-13-32 Ajuga Chamaepitys Schreb Kn II 314, Bar 372, Bon 256; Bol #375; Coste III 134. Flvr ~~common~~ fr. Rest Estab to Son ~~on along river bank to Sant Joan~~ ~~on to toll bridge~~. 2 in high. Common fabacella. Pd through fields just beyond the little drainage depression where Kundmannia sicula is abundant [Many plants found here 7-26-32]

5-13-32 Trifolium angustifolium L. Kn II 86, Bar 123, Bon 80, Coste I 357 Fl. Sit Estab. Son Surely this but fls almost white, slightly pinkish in lower lip. Heads in fr 7 cm long.

1670

5-13-32 Trifolium lappaceum L. Kuntze 81, Bar. 138, Bon. 79, Coste II 353 Fl. Fuld. bet. Estab. & Sm. with Vicia Ervilia. St. erect (8 in. high) with many ascending branches. Shs rather sparsely but obviously hairy (hairs spreading) & flo. dotted heavy bifarious. Sts not "divariquées" (Coste) in terms of Calendly (i.e. almost at 45° angles). Lower lvs (now mostly fallen) with petioles to 4 cm (Bar. 2 cm long). Upper lvs become almost sessile. Stipules of lower lvs narrow (base almost parallel sided with reddish veins on rather coarsely background), the free part narrowly ovate-shaped, 5 mm long. Stipules of uppermost lvs (just under head) broader & gradually pointed. Heads terminal on ends of branches, looking sessile & with peduncle of only about 2 mm. (This is contrary to ill (Coste). Heads about 13 mm high & diam somewhat "hérissées" but not as much as ill (Coste). Flowers white. Corolla 6 mm long. Calyx tube quite glabrous outside with many fine nerves (perhaps 20), the equal teeth 2 finely subulate, with long spreading hairs. Three nerves show plainly at base (perhaps the other 2 are at edges). Calyx with heavy ring at top of tube inside. Corolla about as long as calyx & when corolla is withering the two look much like ill (Coste). As far as can be judged now calyx throat will be open at maturity. Head looks as seamless Coste's ill

5-13-32 Coatsill of T. palludum W. & Kk.

5-13-32 Ranunculus muricatus L. Knt I 495, Bar 18, Bon 8, & 398, Coats I 27 Fl & adv fr. Runs at Establishments.

5-13-32 Kundmannia sicula DC. Knott 243 = Brignolia pastinacaefolia Bert. Bar 202, Bon 130, Coats II 194 Fl & young fr. Past Establ & Lon in damp places & along rivers. Young fr. abruptly bright yellow as petals. Lf & inf. like dill (Coats)

5-13-32 Bupleurum protractum Link & Hoffm Knott 281, Bar 205, Bon 131, Coats II 203 Fl & young fr. Est Establ. & Lon.

5-13-32 Carthamus lanatus L. Knt II 502 = Kentrophyllum lanatum DC. Bar 270, Bon 181 = Centrophyllum DC. Coats I 398 Fl & fr. Establishments This is the spider-webby plant observed several times this spring. Achenes 5 mm high. All achenes seemed to have pappus.

5-13-32 Asperula laevigata L. (See 5-9-32) Fl.

Near Establishments, perhaps in river bed.

5-13-32 Euphorbia brumbellata Pers Kunth 158; Bar 417, Bon 281; Coste III 240 Fl & fr. Bridges Pungpungent Pl'd about Los Establishments.

5-13-32 Euphorbia falcata L. Kunth 157, Bar 417, Bon 282 Coste III 238 Fl & fr. Annuals Estab to San ~~Fer~~ & down river. Two plants on ea. 11-15 in high (1 plant with st. simple, the other with 3 branches near base) Stem reddish & naked on lower half (6 mm) with lf-scars evident. Leaves on upper part def. oblanceolate (almost rhombic) to 25 x 9 mm, undist near top, long narrowed to base, ~~broadly~~ acute at apex, def 3-nerved, Bracts (as seen upper part inflorescence like ill Bon) but hardly denticulate. Numerous short fl-branches below the umbel make infl look elongated not broad & spreading. Glands green ~~with~~ reddish at outer points. Capsule globose, about 2½ mm long & clavate shaped (see ill Coste) much narrower at tip than in some E hardly channeled. Seed 1.6 mm long, pinkish-brown under lens ~~with~~ its ventral face, 4 sided ~~with~~ with transverse linear depressions (3 on the inner sides & 5 on the outside) Bract now before capsule splits (but seed seems ripe) at base small caruncle

5-13-32 Euphorbia medicaginea Boiss Kuntze 159, Bar 418 Fl Vfe. Very common in fields west of Eatonhurst. Seems same as 4-20 & 12-13-80 & 2-25-81. Note that the dot-dash incrustations on seed, beautifully white just before maturity, latter are brown & much less contrasting with the black background.

5-13-32 Euphorbia serrata L. Kuntze 154, Bar 415, Bor 281, Coste III 241 Fl Vfe. Like ill (Coste) v fr as less.

see 7-26-32

5-13-32 Euphorbia platyphyllata subsp pubescens No fr & fls. In bed of stream shortly below bridge & Estabal. - Pungent Rd. Sts about 2 ft high & perhaps more, simple now but with signs of branching above. Natant below with scars of fallen lvs but from below middle thickly clothed with erect lvs. Lvs thin, sessile, pinnately veined, oblong (or slightly enlarged above middle) 6 x 2 cm, obtuse, finely serrulate all around, (the edge, esp on older lvs sometimes with narrow hyaline) purple or edge. The base in all cases auriculate, the auricles being rounded or acute or sometimes def. sagittate.

5-13-32 ? Umbilicus vulgaris L. var pendulinus Kuntze 46 = U. pendulinus DC. Bar. 184. Bon 112, Coste 120 = Cotyledon Umbilicus L. BTH 165. FR. Establimento. Flo definitely pendant all 5-merous, greenish & tinged with slight purplish purple tinge (in fine lines). Corolla tube reaches beyond segs of calyx & all long stem pedicels. This makes it very difficult to follow Baill's desc.

5-13-32 Crupina Crupinastrum Vis. Bar 271 = C. Morisii Bor Coste II 399 = in C. vulgaris Cass (as forma Morisii) Kuntze 505 FR Ufr. 18 flowerheads counted.

5-13-32 Allium
Prob same as 4-10-30? (like in bulblets, low & spathe) FR. Establimento. This seems same as Col. but not ident. in Bellvis May 1932. Head large 6 cm. diam, densely multiflore Pedicels pale purplish, the central ones to 2½ cm, the exterior ones shorter reflexed (but probably because these flo not yet open). Perianth bell shaped, its divisions oval, rounded at top, the outer ones a def. dull purple with an almost green stripe down back which is def- tuberculate

5-13-32 tuberculate roughened. Inner div smooth, rather lighter in color v green stripe correspondingly more distinct. (Effect white head is dull purple touched with the white of the projecting filaments. Anthers purplish. The lateral teeth of outer filament very fine tipped, curling outward in fl but if straightened would somewhat exceed the anthers (of middle teeth.) The middle teeth about 1.5 mm, while the broad rect of the filament is 3.5 mm. Style short v included. Ovary has a transverse flange (3-sectioned) about its middle. Unions also strongly Spathe falls off like caps as flo begin to green. Bulb 2 cm diam at base (tapering to top) surrounded by many bulblets attached to its base by slender thread which ends in flattened surface or bulblet (not esp. at top of bulblet as diac 4-10-30.) Tunic light. By Barcelo diac. this would be A. ampeloprasum L. (but Coste says anthers yellow & style exserted!) Query hat?

5-13-32 Melilotus indica All (See 4-12-32) 1-2 vadv. fr. Robbins recorded below bridge. Very like ill (Coste)

* See note on 5-12-32. P.B.K had the two specimens in hand at once but did not compare carefully. However I am sure Kennedy is right that 5-12-32 was O. breachiantha, somehow this got thrown on identity of 5-13-32

* 5-13-32 Glyceria spicifera Hook. Fl. I 405; Bar 461; Bon 312; Bot 464, Coste III 390 Ft. River below Bridges Estab. One only found.

5-13-32 Avena fatua L. forma sterilis Kunth I 300 = A. sterilis L. Bar 496, Bon 359, Gil 141, Coste III 591 Fl. Fields Establishments

5-13-32 Phalaris minor Retz. Kunth 290, Bar 485, Bon 349, Gil 21, BMQCP. 112, Coste III 535, Fl. Establishments. Root not col. as this may be P. bulbosa forma modesta. Cfd with P. canariensis L. (5-18-32) Staff cylindrical about 50 x 12 mm. Spikelet 5-6 mm; glumes 1.8 mm wide glumes, lateral white (less bright than in P. C—) & veins green (yellowish green when cfd with the dark green of P.C—) Veins 3 as in P.C — one down back & on one each side (Bar says 1-nerved). Wing narrow (½ mm), extending from about ⅓ distance above base almost to apex but almost entire (more like ill of P. nodosa. Coste) Lemma brown pub. Only 1 scale found, that also brown, pub. and ½ length of glumes

[7-26-32 Plant from same field, just no. of Estab. was P. minor

5-13-32 Juncus articulatus L. forma lamprocarpus Kunth 361. = J. lamprocarpus Ehrh. Bar 471, Bon

5-18-32 Bon 321. Coste III 452. [See]. — Davies BVH 488] Fl River bed west of Establishments. Cal pers veg acute (or seem acuminate because edges rolling in) and a triple longer than the inner segs which are obtuse into thin white edge (this looking acute as this edge drys & rolls in) This seems surely to rule out J. sylvaticus Reh = J. acutiflorus Ehr the only other likely. But infl now very erect much like ill (Coste # 3728). Stlfy; lvs def septate; st among & neither st nor lvs compressed enough for J. anceps (Coste); bract which seems like prolongation of st) 6.5 cm i.e. just overtopping infl.

5-13-32 ? Bartsia viscosa L. (See 5-5-32) Fl v young fr. Frequent in rivr-bed below the Estab-Pind gargent Bridge. Capsule nowdef. oblong. 12 mm long.

5-14-32 Centaurea melitensis L. (See 5-3-32) Fl Bellver.

5-14-32 Bunium Bulbocastanum L. (See 4-17-32) Fr. Bellver. Pedicels & Carpophores not at all thickened (i.e. still like Coste ill # 1596-v not at all like # 1596)

5-14-32 Elaeagnus angustifolia L. BMJ CP 580. Bak 408, Bon 217, Crata 221, Kirk's B.F. 172. Fl. Cult. Hotel Victoria. Note. BMJ CP. desc. J calyx-tube and ovary in the family making flowers difficult to understand in dissection. Lvs almost equally silvery-scaly on both sides.

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5-15-32 Kel Acc

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5-15-32 Brassica balearica Pers. Kn II 20, Bar. 30 C. Valldemosa
Fl. young fr. From Mrs Kennedy "Puig Ileo." Lvs 4×3 cm. a dense. (Bar.) but not "caliliadas" and petiole not "adelgazado en su base" Pods tortuous, the largest now 15 mm long on pedicels 8-15 mm long.

5-15-32 Hypericum perfoliatum L. Kn II 185, Costa I 359 = H. ciliatum Lk. Bar 88, Bon 60 Fl. From Mrs Kennedy from Valldemosa. Note lower lvs show few or no transparent dots. (See 1-14-31) dens. glandular fits this.

5-15-32 Trifolium suffocatum L. Kn II 84, Bar 125 Bon 79, B VH 117, Costa I 346 Fr. From Mrs. Kennedy from "Pla des Ponet" c. Valldemosa. Lvs practically all gone

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5-15-32 Potentilla Caulescens L. var genuina Th. Wolf. Kn II 50, ± P. caulescens L. Bar 158, Bon 97, Costa II 17 Fr. From Mrs. Kennedy Puig Ileo - Vega gorge c. Valldemosa. Identical sheet.

5-15-32 ? Vincetoxicum nigrum Moench Kn II 294, Bon 212, Costa II 548, Bar 311 Rdc. bud.

From Mrs Kennedy from Puig Gros - Vega gage c Valldemosa. The red-black corolla seems well enough developed to prove identity but lobes not "pubescent & undersea" (Coste) Leaves basals, dull green above, contrasting with the lighter at. Low all appressed petioled, rounded but almost cordate. Plant does not look like V. officinale of Switzerland 1981.

5-16-32 Lathyrus
[Sect. Clymenum L. var. articulatus Rec 2-26-32 & 4-24-32] Fl. From Mrs. Kennedy from Valldemosa. Wings violate and style with deflexed forward curved triangular tip (less than ½ mm long) whence much more nearly "emarginate" than all specimens seen to date (all of which had blue wings)

5-16-32 ? Aeschynomene arabicum L. Kunth 377, Bar 436 Bon 296, BMJCP. 162, Coste III 316 Fl. From Mrs. Kennedy from Valldemosa. Une fl only sent. 4 cm diam. Ident large by the large almost black spots.

5-16-32 ? Lavatera trimestris L. Kunth 179, Bar 78 Bon 56, BMJCP. 485, Coste I 289 Fl. From Mrs. Kennedy from Valldemosa. Ident based chiefly on relative size of dials & ovules in fl. Dials 3 mm diam with ovules

5-16-32 ovulea peaking from beneath it rim Corolla 4 cm lingle.

5-17-32 Crucianella latifolia L. Kn II 415, Bar 226, Bon 144, Coste II 258 Fl. From Mrs Kennedy from Valldemosa. Fls opp & "bracties extérieures largement connées" (Coste) means outside bracts of the 2 opp. fls. Fl about 9 mm long. Corolla more purplish-green than yellow.

5-17-32 Ephedra fragilis Desf. Kn I 276, Bar 431 ♂ Flo. From Mrs. Kennedy from Valldemosa [See Coste III 398 for desc. of floral parts.]

5-17-32 Agrostis alba L. var verticillata Kn I 395 = A. verticillata Vill Bar 580, Bon 353, Coste III 571 Fl. From Mrs Kennedy from Valldemosa. Very ~~little~~ dwarf Vill. ligule not short, glumes (just as before because now drying not def. obtuse. Glumes both 1-nerved.

5-18-32 Hypericum grandiflorum Benth, Bas. 23, Bon 13, Coste I 64 inc. in H. perforatum L. Kn II 3. Fl v almost ripe fr. Field west of Colden Babassa. Fls 10x 15 mm across (petals 10 mm long) v sepals acute (Bon), rad. ical lvs erect (Bon Coste) in a queer looking tuft with the stems spreading outside. Petals a deep yellow but hardly orange (Coste) Note: middle lobe of inner petals standing erect convivent around style with deep longitudinal fold and short fringe around edge. The filaments of the inner petals broadly ▽ at base, the other 2 narrower v deeply channeled at base.

5-18-32 Helianthemum origanifolium Pers forma Sellae (See 3-12-32) Fl ~~fr~~. Torre den Pau. Pub. to st. ± stawy. Mature lvs glaucous except sometimes hairy on edges v mid-rib beneath. Fl 8 mm diam. Style very def. bent down then up at base.

5-18-32 Helianthemum salicifolium Pers Kn II 202, Bar 49, Bon 85, Coste I 149 Fr (mostly deliquesced) few buds v few lvs. Torre den Pau. Slender taproot (as per b annual) with usually serrulate usually decumbent but sometimes erect, to 6 cm long. Pubescence mostly stawy. Lvs opp v cross upper ones seem to have stipule-appendages like lvs. this smaller. Style short

v straight, stigma discoid. Stamens few in one row. Calyx spreading wide after seeds fall but concave (not plane Coste), the 2 spread 1 cm diam. Capsule 5 mm high with 3 very obtuse angles, very faintly hairy at top or outside (Coste) Inner lining ? the valves separated from the outside. Sepals with 3 very distinct nerves v usually a less distinct 4th, broadly ovate, acute. The 2 bracts ? epicalix about ½ as long, narrowly lanceolate, 1-nerved. Effect much as ill (Coste) Seeds many, small (1 mm), prismic in effect with flattened facets finely papillate on angles.

674

5-18-32 Mesembryanthemum nodiflorum L. Kunt 447, Bar 186, Bon 112, Coste II 122. Fl Tarbadera Pass. This agrees with desc. ill which plant of 3-23-32 #626 did not. Sts v slender, glabrous, often red & covered with glistening blisters. Cauline lvs opposite, 1 pair cylindric (or a little club-shaped by having a trifle larger diam. at tip than at base), easily partly clasping, very rounded at apex, no nerves showing. Largest 4 13 x 3 mm, lvs ciliate at base with a few basic like flattened scales (20X), no edge decurrent. Fls seem sessile in axils of bracts or (mostly) terminal. Calyx tube hardly distinguishable from stem v base of sepals. Calyx lobes 5, obviously unequal (the longest about 8 mm) the outside one cylindrical & just like lvs (with the same

5-18-32 same sort of ciliation at base (On these nothing appreciable the smooth white inner surface of (3-28-32). The 2 shortest, inner sepals are sheathing on inside below with thin white margin (still unlike 3-28-32) the top of sepal projecting upward from back-top of this sheathing part. (Many of the sepals have a little hump or back toward the base) Petals many, linear obtuse, white, merging into greenish-yellow ring at base; the white 5 mm high so that petals are shorter than longest sepal but longer than shortest sepal. Ovary not lobed, with 5 sessile linear stigmas 1½ mm long erect, not remaining on fr to 1" spread at ant-mat (8-28-32) Stamens many not in groups. (Query what relation bet. the ring which bne the stamens in 3-28-32 and the united bases of petals in this?) Anthers yellow, attached at about middle. Scattering the stamens & petals form a little cup over ovary. Calyx not at all accrescent & reflexed but (a x 5) closed over the very young capsules which show no signs of the flanges of 3-28-32 Ovary probably 5-celled. Each cell with many ovules attached by long to axile placentae (not now noticeably thick) Ovules show (20x) papillate ridges on back.

5-18-32 Lepturus incurvatus Trin Kunt 338, Bar 517, Bon 371, BVA 544, Coste III 673. Europe fr. Torre del Pau.

5-18-32 Carthamus Caerulens L. Kunt 502 = Carduncellus caeruleus DC. Bar 270 = Centrophyllum Caeruleum G.G Bon 181 = Centrophyllum — G.G. Coste II 398 Fl V europe fr. Field by stream west of Torre del Pau.

5-18-32 Euphorbia terracina L (see 5-5-32) Fl & fr. Col del Rabasa etc.

5-18-32 Chenopodium vulvaria L Kunt 439 = C. Vulvaria L Bar 397, BVA 386, B 367, Coste III 184 = Colchicum Cent. Bon 369 Fl & fr. Colde Rabasa. Note Fr 1½ mm diam (Coste says 1 mm) & notes sharp on edge as ill (Coste

5-18-32 Rumex Bucephalophorus L. Kunt 433, Bar 402 Bon 272, Coste III 198 Fl & europe fr. Col del Rabasa. Exactly as ill (Coste). Styles seem "soldados a los angulos del ovario" (Bar) tho' Coste says not. The 3 teeth on each valve fr. valves evenly spaced, not "hacia su base" (Bar)

5-18-32 Cirsium syriacum Gaertn. Kuntze 492 = Notobasis syriaca Cass. Bar 265, Bon 174, Coste III 368 Fl v unrepaf. Returned from Torreden Pass. St bears fls in middle of its length. Lvs more deeply cut than ill (Coste), the white veins very conspic. beneath v evidentative lfts petiolulate lvs have their clasping auricles reduced v consisting only of spines. Involucre webby the clasp tips of bracts arched outward.

5-18-32 Anacyclus clavatus Pers. Kuntze 473, Bar 248, Bon 168, Coste III 347 Fl v unrepaf. Colden Rebasa. Only exterior achenes winged at contadence. Scales of receptacle broad, broadly rotundely 3 lobed (not as ill Coste) with a few longish hairs at tip of central lobe. Heads 2.5 cm diam. Ray with Anthemis arvensis L. = Perez, style much the same but Anacyclus more shaggy hairy.

5-18-32 Anthemis maritima L. Kuntze 473, Bar 247, Bon 167, Coste III 346. Fl. near Colden Rebasa. Note scales of receptacle. yellow tipped v prolonde above the buds at center of head.

5-18-32 Polygonum monspeliensis Desf. Kuntze 493, Bar 493, Bon 356, Bon-Sen 535, G 135, Coste III 575 Fl. near Colden Rebasa. Lvs 5-7 mm wide. Stamens 2 lobed at apex but less than ½ length (Coste), anthers seem to issue from

the notch. Lemma slightly dentate-varnished. Upper section of pedicel shorter than lower (Coste) (Bar to the contrary) awns soft to touch (BUH) but (20x) show minute denticulations.

5-18-32 A Silene 675
Fr. Torre del Pan.
Perhaps libanotica.

5-18-32 B Silene 676
Fl & fr. Field west of Torre del Pan.
[Kew identifies this as S. rubella L.]

5-18-32 Phalaris canariensis L. Kn I 289, Bar 484 Bon 349, Bol H 530, H 131, BM & CP 112, Coste III 536 Fr. Field west of Colden Reboa. Inflorate about 25x15 mm. Spikelet 8mm. Glume 2.6mm wide. The wing-keel is narrow to base) 1mm wide. The 2 sterile scales ½ as long as lemma, white touched with green, slightly pubt. as are glumes. Lemma densely pubt (now) white)

5-18-32 Bupleurum semicompositum L. (See 5-2-32) Fr. Torre de Bru. Fr adv. enough to show the volute tubercles.

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5-18-32 Romulea parviflora J. Britten (See 3-9-32) Fr. Torre de Pau. v 3-30-32

5-19-32 Linaria supina Desf. forma pruinosa Knuth 379 = L. melanantha Boiss v Rent Bar. 340 [Syn L. supina Desf. Coste III 21, Bon 234, BVN 340] Fl v fr. From Mus. Kennedy from Teix. Sto (as sent) to 5 in, slender, naked below. Lvs 1 cm long. Plant glabrous except for gland tipped hairs on calyx & adj parts v few on corolla. Corolla 2 cm overall, tube ca vertical apuris one half. Fl solitary in 2-series close together at tip jnt, alternate sessile. Seeds orbicular-concave, 3 mundiam, not tuberculate with volute wing.

5-19-32 Linaria supina Desf forma pruinosa Kuntze 879 = L. melanantha Boiss & Reut Bar 340 [See L. supina Desf. Coste III 31, Bon 234, B&H 340.] Flo fr. From Mrs Kennedy from Teix. St 0 (or rarely) to 5 in, slender, naked below. Lvs 1 cm long. Plant glabrous except for gland-tipped hairs on calyx & adj parts of fr on corolla. Corolla 2 cm or more all 2 of which the vertical spur is ½. Fl solitary or 2 close together at top of st, almost sessile. Seeds orbicular-concave, 3 in diam, not tuberculate, with white ring.

5-19-32 Asplenium ruta-muraria Sw. forma pallidum Christ. Kuntze 353 = Polystichum — DC. var. ruta-muraria Ten Bar 522 [See Asplenium — Sw B&H 584 and Polystichum — DC. Bon 379, Coste III 68.] Sp. From Mrs. Kennedy from Teix. Stipes (scaly only at base) 13 cm long to base of blade. Blade 12 x 6 cm, broadest at base, tapering to acute apex.

5-19-32 Buxus balearica Lamk. Kuntze III 165, Bar 421. Fl ♂ & ♀. From Mrs. Kennedy from Teix. St 4-angled from decurrent petioles. ♂ perianth lobes much like the corolla of a Rubiacea with tube (or stalk) 2½ mm & 4 lobes slightly longer. P&B. this is a stalk as it is closed (at least at top) where the filaments issue.

5-19-32 ? Specularia falcata DC. (See 5-9-32) Prob. very young fr. From Mrs. Kennedy from Tex. Note the lines of asperities (see 5-9-32) run full length of st. & similar asperities on edges of lvs. & under-sit beneath, also on calyx tube (not in lines) This and general aspect like ill 3844 would suggest S. castellana Lange Coste II 492 but Coste's very much smaller than calyx lobes.

5-21-32 Anonis antiquorum L. Kn II 67, Bon 72, Bar 571, Coste I 311 (Ononis Crepens L & O. procurrens Wallr. Bar 1105) Fl. From Mrs. Kennedy from Valldemosa. Roots. St def zig-zag. Fl 10+ mm small.

5-31-32 Convim macilatum L. Kn II 230, Bar 218 Bon 135. 3844-209, & 613, Coste II 226 Fl violet-pr From Mrs Kennedy from Valldemosa. Fr. very like ill. Coste's.

Identified by Kew as S. falcata D.C. (rec 5-9-32)

678

5-23-32. ? Specularia Castellana Lange. Coste II. 492 Bon. 197 Fl. N'l. Bluish to mauve Pollenga on 1st sl. leading northward. (Seems same S. as 5-19-32 from Valldemosa) Lower lvs spoon-shaped, margins crenate, upper lvs narrower & 2 & 15 in high. Aspect like as 5-18-32, 1 of group as all (Coste). Calyx tube 7 mm, calyx lobes 5 mm. Corolla 10 mm across, its lobes exceeding tips of calyx lobes by 3-4 mm. [Since this is in spite of large corolla, is S. falcata prob. none what S. Castellana Lange.]

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5-23-32 Linaria aequitriloba Duby. Kuth. 379, Bar. 338 Coste III. 16 Fl. reddish-violet & old pearly. with above. St. pect. v hairy with long spreading hairs, lvs some opp. but not all (at ends of sts.), lvs almost circular, light narrower & more than ill (Coste) v less deeply lobed than ill (Coste), (often almost entire) but sometimes lobed ill Kuth Tab XXII insert. Lvs 1-2.5 cm diam, prob (esp above) and often red disk beneath. Not much about length of ped-uncles but prob (at least sometimes) shorter than pect. Calyx with spreading hairs some of which seem glandular. Corolla 10 mm overall, spur 3 mm. Corolla almost white in tube, but deep pale lilac-blue at edges; the upper lip veined in purple, lips & palate with 2 bright yellow bosses, throat & palate bright purple thickly bearded with bright orange hairs (enlarged at tips) But the purple throat & the 2 yellow bosses, the bearding is & similar white hairs. Corolla somewhat hairy on back

Upper lip Anthers white. Capsule globular with a few gland-tipped hairs, the largest more very slightly exceeding the calyx, but the old pods suggest that when ripe may be still a little more so. Seeds surely with hair "crestas salientes" (Bar) (Coste says "sans crêtes saillantes"!)

5-23-32 Lavatera trimestris L. (See 5-16-32) Fl vadv fr. Field about 2K west of Pollensa on rd toward Lluch.

5-23-32 Lathyrus latifolius L. Kn #126, Bar 573, Bon 88, Coste I 402 & 527, BMQCP 393 Fl. Field about 3K west of Pollensa on rd toward Lluch

5-23-32 Arenaria balearica L. (See 5-9-32) Fl vfr. Rd Lluch-Pollensa east of divide Nte: as fr sepals dark purplish with a little thickening at base (almost arcuate effect). Seeds slightly less than 1mm, very dark.

5-23-32 Galium parisiense L. (See 4-17-32) Fl vadv fr. Rd Lluch-Pollensa. Seems same as (4-17-32) & very like #9 (Coste) some with fr glabrous but finely roughened, others with fine hooked hairs (as 4-17-32. Cf. with below.

5-23-32 Galium setaceum Lamk (See 5-9-32) Fl. v. abs. fr. R'd Lluch-Pollensa Seen frequently in some parts.

5-23-32 Trifolium resupinatum L. Kuk II 83, Bas 127, Bon 78, B&H 118, Coste I 342 Fl. v. abs. fr. Ins. rid about 1K from Lluch toward Pollensa. Plant a flat mat, perhaps because in rid (not as deac. as ill Coste and B&H) & peduncles very short. Fr. calyx unmistakable with 2 setaceous divergent teeth. Calyx thickly pub on upper lip (but glabrous at its tip) glabrous on lower lip in fl & fr, many nerved.

5-23-32 Rosa sempervirens L. Kuk II 51, Bas 162, Bon 101, B.M.Q.C.P. 344, Coste II 51 Fl. R'd Lluch-Pollensa entering into narrow rid at base of descent to Pollensa. Fls 2in white diam, petals deeply obcordate. Lfts narrow, very glandular sides.

5-23-32 Tarilis heterophylla Aucs (See 5-9-32) At various places rid Lluch-Pollensa. Sts rough with closely appl. down-pointing hairs. Lvs v pet. rough with similar hairs pointing up. Lvs v gen pet much as ill (Coste). Rays 2-8. Cross-section of fr. as ill (Coste) but inner lobe rougher. Barbs rough & with tiny rough

lanceat tips. Barbonos white at base and def. purplish above. The 3 dorsal & the primary veins rimmed with fine & appressed hairs (like the rose or less). The other bracts not in def. lines. Best fr. now almost 4 mm high. Styles very short. Petals white-pink, both appressed hairs on tails.

5-23-32 Anthemis Cotula L. Kn II 472, Bar 247, Bon 167. Bvh 247, # 846. Coste II 345 Fl. Lluch & beyond towards Pollensa.

5-23-32 Ranunculus macrophyllus Desf. Kn I [illegible] Bar 563 Bon Coste I 30. Fl and unifoliate fr. Lluch. Very like ill (Coste) Suggest R. aleae when growing but diff to eye in the broad div & lvs, the long spreading hairs on st & pet; lvs thin & to touch & softly hairy & the peduncles highly grooved. Note receptacle pubes only at top.

680

5-23-32 Crepis Triasii Willk Kn II 579, Willk I fo 96 Tab 41 = C — Cambessedesii Bar 291 Fl. Lluch-Pollensa. This obviously is not the common C. found by road sides but diff difficult to describe. Plant [illegible] dull grassy green, fls a clear yellow (hardly as pale as sulphur but paler than dandelion yellow) inside effect neater & more like those in C. taraxacifolia. Plants 9 in

5-23-32 Tiny ligule with hvs all basal except for occasional linear bracts subtending branches of the infl. This is plant whose rosette flvs. seen frequently in the mountains this spring (in bud 5-9-32). Many in full flr south side (road cut) to Lluch today but very few in flr. Lluch-Pollensa.

5-28-32? Verbascum Thapsus L. Ku II 366, Bar 333, Ren 228, G 719, BVH 336, Coste II 620 Very early bud P'd Lluch-Pollensa (after lunch at 1st rd to left, perhaps at house just beyond) General look of V. and the strongly decurrent lvs seem to make ident sure.

=V. Portae Wellk. Ill. Tab CXXIV.

5-23-32 Verbascum Boerhavii L. var Portae Ku. Ku II 367 Flr fr. NEAR Lluch on way to Pollensa. 681

A. Two apice. 10-12 in high. Lowest lvs narrowed at base, petioled, upper lvs sessile, cordate clasping all felty with starry pub esp. beneath. Flrs in spikes single axis 2's. Flrs not more than 1.5 cm across (Coste says V. B- 3 cm), practically sessile. Stamens 5 the 2 longer with violet hairs at base only and anthers oblique (Coste) the others with filaments densely covered with glandular, violet hairs and anthers (per B) not oblique. Oldest pods now 1 cm high, longer than calyx, becoming glabrous & shining. Note: only close available are V. Boerhavii L. Coste II 622 & V. Portae Wellk. Ill. CXXIV.

corolla 9 mm left

20 not sure I diff but size & corolla exactly right by Wills. Fls could kindly be called "plongées dans le duvet" (Coste)

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B. At first some above 2 buds (mentioned in ✱) Plant stands 47 in high (Jr bud 27 in is imp?) Shape of fls as in ✱ but at ✱ upper rule of lvs almost globose Corolla, anthers, etc seem the same as ✱. The chief diff from ✱ apart from size being that the fls are in groups of 3-7 (hard to count because the groups run together in fr.) making very rocky effect along st which stands out the clusters. Largest pod now 13 mm high.

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5-23-32 Alchemilla arvensis Scop. Kn II 53, Bar 165, Bon 102, BvH 145, ✱ 493, Coste II 62 Fl & fr. R ½ Bluck-Pollens

5-23-32 Sonchus asper Hill Kn II 540, BvH 273, ✱ 866 BvH 211 II 236
BvH 273 = S. — All Coste II 436 = S. — Vill Bon 187, Bar 286 Fr. Bluck-Pollens. Achenes 3 X 1.7 mm the wings on edges being half as wide as the centre. Edges of achenes with slight downward

5-23-32 downward pointing roughness. Achenes almost smooth with 3 longitudinal nerves but no transverse wrinkles. Note B&H-Dill. 336 "Inv. slightly wrinkled about the mid-rib" true. Plant 1 dm high.

5-23-32 ? Brachypodium pinnatum P. Beauv var. silvaticum Kn I 829 = B. silvaticum P. Bar 514 = B. silvaticum Rem & S. Coste III 667, Bon 37 = B. silvaticum Beauv B&H 543, Fl Mas Rsa sempervirens at crest of Pollensa Inv yellowish green 1 cm wide, almost smooth, glabrous. St. slender, finely put. on nodes but plant otherwise glabrous 2 patches 5-7. (This does not agree with underlining in Coste) (10-5-32 Holm) but seems only B. in Mallorca with wide flat lvs.

5-23-32 Spartium junceum Linn (See 5-3-32) Fl. Pk Selva-Calmari.

5-23-32 Euphorbia segetalis L. Kn III 158, Bar 448, Bon 282, B&H 467, Coste III 239 Fl & fr. Rd beyond Sta Maria on way to Consell.

5-23-32 Geranium lucidum L. (See 4-18-32) Fl & young fr. West of Lluch with Specularia and Linaria. Seed with longitudinal (almost crenate crested) on back at top, more or less reticulated at the sides & then & below them but more nearly smooth at base. These ridges and the edges of the envelope (when it breaks from the axis) finely glandular-ciliate.

5-23-32 Lens nigricans Godr. (See 5-9-32) Adv. fr. Lluch-Pollensa. No common peduncles. Pods (with centrifugal seeds well formed) are still slightly pubescent. Largest pod still 8x4 mm.

684

5-23-32 Lotus tetraphyllus Murray (See 4-24-32) Fl & young fr. Common on hill Lluch-Pollensa about at the inn. Largest pod now 11 mm.

5-23-32 Digitalis purpurea L. subsp. dubia Rouche Fl. II 388 = D. dubia Rodr. Bas 346, Willk Ill. Tab LXXI. Adv. bud. Lluch-Pollensa. Corolla now dirty white but spots on inside & on anthers clearly visible.

5-23-32 Cirsium lanceolatum Scop forma Creuticum (See 4-24-32) Fl. Lluch-Pollensa [Prob not var ellipticum = C. —— DC = C. Willkommianum Porta & R.

5-28-32 Porta v R since Coste II 378 v Valdés Jdl Tab C1 desc. v ill that as he not decurrent] Lvs def. decurrent. Upper side of lvs green, very rough with stiff yellowish bristles, the underside white, turbby with white salient nerves which end in slender, smooth, very pale cherry, yellowish spines ± 1 cm long. Heads 45 X 30 mm (inc. spines) Involucr. bracts united by spider-web, the bracts narrow lanceolate tapering to smooth yellow spine (5-6 mm long) the outer bracts ~~spr~~ curving out v down the rest spreading; none really reflexed.

5-24-32 Festuca ciliata Pers Kut I 322 Bar = Vulpia ciliata Link Coste III 629. See Bor 365 Fr. ~~Bellevalia~~ ~~Ill powder magazine note~~ Exactly as desc. v ill Coste. Ciliation on lemmas very distinct Hillside above junction of Kenoatrans.

5-24-32 Stipa capillata L. var toriclis Kut I 292 = S. toriclis Desf Bar 494, Bor 356 Coste III 577 Fr. Bellevalia v Terreno. Note: when fr. shed the inflexed awns erect spirabilis, with the silvery, thin glumes. Awn in the twisted portion is striped dark brown v a light tan, barber-pole fashion.

5-24-32 Capparis spinosa L. Kut II, Bar 45, Bor 34, Coste I 142 Fl. Terreno sil to Aigo Dolça bottles.

filaments bright purple at ends. Pedicel
♀ ovary 1+ in, up curved.

5-26-32 Lathyrus
[See ? L. Clymenum L var articulatus Arc ♂ 2-26, 4-24 ♀
5-16-32] From Mrs Kennedy from Valldemosa "same plant
as 5-16-32" Unripe fr. Pod now 50×8 mm, very flat,
not channeled on back, the 3-4 seeds (now) making
it def "nodoso-jibosa". Seeds (now) 6 mm diam with
hilum 3 mm. seed glabrous.

5-28-32 Scirpus setaceus L. subsp cernuus Kuk 343
= S. Savii Set & Maur Bar 496, Bon 326, Costa III 496 = S.
cernuus Vahl Bx H 501 Flv young fr. From Mrs Kennedy
from Valldemosa. 7 Cinligle. Spikelets 3 mm. Scales
striate, green at top, mid-rib & much brown mark-
ings at top, otherwise light-colored.

5-29-32 Daucus pusillus Ball Kn II 356 = Oelaya maritima Kuhl Bar 192. Coste II 161 = Caucalis maritima Bonan Bon 124. Fl v unique fr. Beach at Colonia. Plant gray-green, almost flat on ground. Fr 10 mm long, spines straight. Buds & fruit often notched at end.

685

5-29-32 Linaria cirrhosa Willd Kn II 376, Bar 339, Bon 232, Coste III 16. Fl v unique fr. Cala Sandalüy. Two plants only found on rock west side near shore. Plant exactly like ill (Coste & Bon). But note: Calyx lobes are D with a colored (greenish-brownish) band (?) about same width thruout & dorsal center and hyaline thin white margins at base. Palate & Corolla not neatly dotted as in ill (3-13-32) but spotted pale purple with the spots more or less in lines, Corolla (base to tip) 7mm, spur straight 2.5 mm

5-29-32 ? Matthiola sinuata R. Br. Kn II 35. (Bar). Bon 23, Coste I 85. Fl v unique fr. Beach at Colonia. Hard to ident by Coste & Bon. Pods are flattened but "closed" diff to see in the pod (very diff. to open now.) Pods 3 toothed at apex but this is not the ill. (3-28-32) since the middle tooth is not 2-lobed at base & at base lobes bearing on each side a small

but def. out-standing tooth." Plants to 8 in or less high with ~~at~~ spreading branches very zig-zag (to touch) & grey. Branches & pedicels very stiff. Longest pedicel now 4 cm. Fls with a most engaging innocent expression, light at center, lilac at edge, fully 2 cm diameter across. Sepals very like ill. Corte. ~~Petals~~ not like ill (Bon). Pedicels covered with the same stalked glands as rest of plant and (at least some) are roughened with glandular-tipped projections. Fruit seeds now show no signs of being "largement ailées" (Corte) and peduncles (now) never more than 3 mm (Bon says at least 5 mm). If this is M. tricuspidata then the 11/(3-28-32) was perf. something else - perhaps a garden escape. All parts of plant have the same stalked glands as pedicels but they are difficult to see because of the down. Tips of pedicel thus: ⚠

5-29-32. Rubus caesius L. Kuk II 50 (which Kuk gives as only Rin Balearics) inc Barcelo R discolor Weihe & Nees Bar 160. Includes R ulmifolius Schott (= R discolor W & N part.) Corte II 38. Fl. Bet. Santanyi & Campos and on Cape to southward. Fls deep pink. Prof. Barceló #5.

5-29-32 Euphorbia dendroides L. (See 2-26-32) Fr. Cala Figuera v Cala Santanyi. Caruncle large oblong, ~~not~~ with a tendency to be slightly 2-lobed transversely, not obliquely. Diff. undulated and Barcelo "aristada" unless it refers to the fact that the caruncle is attached to seed by short stalk so that it can be easily swung around on the stalk as an axis as in E. terracina L. (5-5-32)

5-29-32 Echium Creticum L. forma maritimum (See 4-27-32) Fl. & fr. Beach at Colonia (seen on various beaches since 4-27. Corollas dark purple & large. Seeds 2+ mm high.

5-29-32 A Carex extensa Good. Kunt 350, Bar 481, Bon 338, BVH 576, A 245, Cate III 579 Fr. & ripe fr. Cala Santanyi at Colonia. 14 in high. Scales vary from blunt to strongly mucronate.

B. Fr. & ripe fr. Cala Santanyi. Prob. the same but only 3 in high. General effect much more stubby.

5-29-32 Polypogon maritimum Willd var. subspathaceum Duby Kunt 294. (Bar) = P. subspathaceus Requien. Bon 366, Cate III 575. Prob at Colonia. Fl. & ? doubtful ripper article longer than lower v

longer than viola

686
5-29-32 Silene A.
Fr. Cala Figuera. Lvs linear, all parts softly downy. Infl loose, 1-2 flowered, branchless. Calyx umbilicate, handsomely veined, closing over top & prod. Pod globose, 7 mm long on stalk 4 mm long. Petals pale flesh color, ruffle winged on back [Identified by Kew as S. serrata All]

687
5-29-32 Silene B.
Fl & old fr. Decumbent on beach at Colonia. Lvs slightly broader than A, Infl much like the same. Fls seem generally the same but fruiting pods smaller. Seem to shed seed without turning back teeth of capsule. No seed to study. Petals pale pink slightly greenish below. Claws exserted about 3 mm beyond calyx [Identified by Kew as S. serrata All.]

688
5-29-32 Mesembryanthemum nodiflorum L (See 3-23 & 5-18-32) Fl. Common on beach at Colonia. Same as (5-18-32). [Identified by Kew to Mrs K]

689

5-29-32 Teucrium Polium L. var Plumm
Kn III 315 See T. Polium L. Bes 875; Bon 357,
Coste III 139 Fl. Beach at Colonia. Same as 11-22-32
Cfd with T. Polium var majoricum from Bellver
from which it def. differs. Inflor. chiefly by calyx
lobes as dese (Kn) & by fact that it is not like Bell
Wills Ill Tab CXXXIII T var majoricum. Plants
low (prob about 1ft or less) & less tall than var maj
St. los, calyx all woolly felty with white tangled
hairs which are much longer than the sim-
ilar hairs on var nov majoricum. Lvs thicker
broader & slightly longer than var majoricum but
the revolute, crenulate edges much the same
Infl has a broader more solid effect as lateral
heads are only very short pedunculed. Fls larger
(calyx 5mm high while var maj - has calyx
3 mm high: corollas differ in about same pro-
portion). Calyx teeth short & obtuse but each bears
just below its apex on the back a woolly hair or
awn 1½-2 mm high. (var maj - has nothing
similar) Corolla usually white but (in one
spec) tinged purplish. Anthers red-orange or
redder than orange. Filaments curve variously
on drying - perhaps not as def. apically as in
var majoricum

690

5-29-32 Teucrium Polium L. var majoricum
Kn III 317 = T. majoricum Rouy Willk Ill Tab CXXXIII

Fl. Bellver.

5-29-32 Statice

Fl. Cala Santañy. Perhaps same as 11-22 & 12-31-32. Corolla 6 mm diam. Calyx tube pub. below v limb not "profoundly divided into deltoid lanceolate lobes". Corolla bluish-lilac not def pale. This puts it perhaps nec to Coste in his group that includes S. Confusa B & R rather than that which includes S. diffusa Lag (the only 2 groups poss. in light of Kuntze.

5-31-32 Convolvulus cneorum L. Kuntze 230, Bar 213, Bon 130, B & H 209, B 613, Coste II 326 Fl v adv. fr. From Mrs. Kennedy from Valldemosa. Fr. very like ill (Coste etc)

[Identified as A. balearica Cos. & kept by Kew]

691

6-3-32 Anthyllis Vulneraria L. var balearica Kuntze III 93 = A. rosea Willk Bes 1/2 = A. balearica Cosa Willk Ill I 39 Tab XXVII. Fl. Puig Geros - Vega gorge C. Valldemosa (about 780-800 M. alt). Plant 1 one erect at 10/15 cm high not (at first sight) unlike prostrata, but might by throwing out aerial stolons (one is starting) come to look like ill (Willk) known specimen CR all (minus the lower ones 5-7 lfts, the upper 1 3 lfts not nearly as unequal ~~in breadth~~ as is remembered in lower lvs of A. Vulneraria in Dunfjelland. Head of 13-31 fls, flesh colored with faint stripes (not as purpurea (Ill Willk). Fl 1.5 cm overall. Willk says 2 cm. Bracts 1 about 10-12 divs, exceeding flowers in length (Allen spd now 12×4 mm, its stalk 3 mm. All lvs glabrous above, silky beneath. If as Knoche states 800 M is lowest limit of this var balearica, the plant col. may not be topically developed. Keel faintly. Fl. vexillum and alae pale pinkish ill (Willk)

Puig Geros - Vega gorge = Estrett de Son Galcerat

692 = A. Vulneraria L. var rubra (Gouan) acc. to Kew.

6-3-32 Anthyllis Vulneraria L. var rubra forma tricolor Kuntze III 90 = A. Vulneraria L. var ? Bes 1/2. Fl. on ~~steep~~ slope along wall from rocks where above was found to the Valldemosa path. Plant 1 one erect at 10 cm high which might easily be taken for form developed apace of above. But lower two alternate simple leaves a terminal cluster a great distance from

a pair of tiny lateral lfts which look like stipules, the upper with 5-lfts. lfts & bracts with spreading hairs above. Fl 13 mm across all, corolla deep bright red; the calyx red on its upper third. Oblong fr nos 3 X 1-mm on stalks 2 mm Flora Dee Wells #I 39 fr[agment] from mts. balearica. Standard annuel Dasin? mts balearica

698

6-3-32 Scutellaria balearica Barc Ku II 325, Bar 370 Early fl. Puig Ros-Vega gorge. frequent in bed & forests & found elsewhere. Wild fls white path went through gate below luncheon place. Sts fine pubescence glandular.

6-3-82 Epipactis microphylla Swartz Ku I 413, Bar 589, Bon 309, Coste III 413 Fl. Puig Ros-Vega gorge not uncommon. (Mrs. Kennedy says found all about Valldemosa region). The 2 gibbosities at base of lip strongly "plissées-crépues" as is all the space between (but not 3 separate bosses as in E. atropurpurea Rafin Bon. #III 345). Tip of lip might often be be called "en pointe recourbée" (Coste for these species) Lvs on largest spec. not 3 cm wide but those on middle of st often def. longer than internodes

A. 5 in height, fls 4.
B. 15 in " , fls 21.

697 (See 5-28-32)

6-3-32 Digitalis purpurea L. subsp. dubia Rouy Fl. Frequent & beautiful Puig Kros - Veya gorge

695

6-3-32 Brassica balearica Pers. (see 5-15-32) Immature fr. Puig Kros.

696

6-3-32 Helleborus foetidus Mill var. lividus Ait (See 3-23-32) Immature fr. Puig Kros - Veya gorge. Frequent. Underside of leaves grayish-lilac. beautiful.

697

6-3-32 Helichrysum Lamarckii Camb. (See 3-23-32) Fl. in various stages. Puig Kros.

698

6-3-32 Hippocrepis balearica Wulf. (See 3-18-32) Also fr. Puig Kros. Frequent on cliffs in fl. & young fr. none seen ripe.

6-3-32 Paeonia corallina Retz forma leiocarpa (See 3-23-32) Young plants no flor. fr. scattered in Puig Kros - Veya gorge.

699

6-3-32 Asplenium Ruta-muraria L. Ku I 253 (Bur). Bor 380, BUH 586, 937, Coste III 693 Sp. Puig

Gross cliff Elviy 1 plant seen.

6-3-32 Sedopendicum Nemicinitis Sw. Kn I 259, Bon 380, Coste III 696 = S. — Lag & Rod Cl. Bac 5-2 3 Sp Puig Ters - Veya gorge. All lvs in plant about vate 5.5 X 4 cm.

700
6-3-32 Galium rubrum L. var balearicum (Pau) Kn II 430, III Tab IX. Fl v young fr. Puig Ters-Veya gorge. Sts very slender, branching at base v almost simple above, annuls v glaucous. Lvs verticillate in 4s much smaller than internodes exc at near base 3 at L vs in middle 3 at 5 X 1 mm lance-olate; lvs near base 3 X 1 mm oval. Upper lvs minutely bristle-tip 2 or 3 put above v roughened with down-pointing bristles on edges. Lowest bracts v glaucous v smooth. All lvs red beneath except for the broad green mid-rib in latter some. Upper lvs 2 cymes corymbs ? short lateral branches ? stem shorter than internodes bearing a few fls (rather like Coste ill 1678 more simplified). Corolla sp wine-red or a little lighter above, open wide 2 mm (on a side), lobes being 1 + mm high. Lobes acute with tips involute (not aristate). Ovaries smooth

Seu desc. of G. corsicum Spreng Bar 231 (desc may be of Crespi's plant this name among) Seu too. G. rubrum L. Coste II 249, Bon 140.

6-3-32 Rumex intermedius DC. Ku I 438, Bar 402, Bon 317, Coste III 198 Fl. Pyr. unique fr. Puig Ken. Basal lvs often 1.5 cm wide. Fruiting valves purple-pink.

6-3-32 Silene mollissima Pers. Ku I 467 = S. nemoralis Pourr. Bar 64, Bon, Coste I 177. Very early bud. Puig Ken. Aspect as material allows a grass with dense. Lvs v.at, very soft heavy pubescent scale, Capsule 11-12 mm or ca plane 8-9 mm. Basal lvs to 4 × 2½ cm with petiole ± ½ length of blade; st-lvs linear sessile. Calyx not glandular But note: lvs, at least the basal ones thick (1 mm + in cross section) & stiff. Thiant mentioned in (Bar or Coste)

701 [Kew names this C. Halleriana

6-3-32 ? Carex ~~ravularia~~ Halleriana Asso var ravularia Knoche (= C. ravularia Porta!) Ku I 348 See C. Halleriana, Asso, Bar 480, Bon 334, Coste III 501 Adv. fr. Puig Ken. St to 11 cm, the lvs overtopping it 1-3 cm Lvs 1 mm wide, channeled but not deeply, keeled, roughened on upper surface toward the long fine tip but almost ~~quite~~ smooth below. St very delicate, 3-edged. Terminal spike ♂, 1 cm long, etc scales brownish red with lighter mid rib v ± white

on edges of capsules 3: upper very close to or the middle only slightly below & the lower on a capillary st. from near the base of st. Bract of upper spike short (i.e. scarcely overtopping capsule; bract of middle & spikes long (i.e. overtopping of spikes by ± 15 mm. & spikes short (about 4 fls. Fr 5 mm long, perigynia obovate, flattened into a somewhat tacheted beak (1 mm long), slightly 2-cleft. Perigynia nerved, and dark glabrous (perhaps but desc. as minutely beaked (10x)] scales of ♀ green in back, red-brown on edges, nerved, not quite as long as fr. 3 styles 3. Achene trigonous, 3½ mm long with the tip (1 mm), which is bent to one side. Fine achene may prob. be taken merely immibbed late (and to all appearance of this). Ligule of lvs very short truncate (hardly more than a ridge)

6-3-32 Carex distachya Desf. Kun I 346 = C. Linkii Schk Bar 479, Bon 332 = C. longistyla Britton Conte III 501 Also fr. Puig Aeso-Vega (not seen) in gorge on cliffs.

6-3-32 Ruta Chalepensis L. var bracteosa Kuntze. Kun I 140 = R. bracteosa DC. Bar 95, Bon 63, Conte I 269. Fl & unripe fr. Just behind house when path starts up Puig Aeso-Vega gorge. Cfd with R. Chalepensis from Bellows, but plant plainly recognized without comparison. Plant larger & stouter in all parts. St & lvs dark green (gray-green in species), bracts large & throughout ruft Fr now 1 cm diam (larger than ripe fr of species

6-3-32 species as enumerated) without the sharply acute points to valves found in species v the four four points spreading (making a very open-ended capsule when corolla falls) while in species the four points are close together

6-3-32 Scabiosa cretica L. Ku II 438, Bar 283 Early bud. Puig Kroo

6-3-32 Hieracium Lawsonii Vill Ku II 524 = H. saxatile Vill Bom 94, Cote III 466. See Bar 292-3. esp. desc #730. Fl. Puig Kroo. Bommer's key would bring one to this conclusion also Cote ex cept that leaves are hardly obtuse. Dif. from dens (Cote) in that upper part of st. the black glandtipped hairs are mixed with a few white ones. Plants ± 17 cm high. Heads 1 or (usually 2) - 3 ± Ku is sure this is the only H. in Balearics Achenes dark brown, 3 mm long.

702

6-3-32 Crepis Taraxi Willk (See 5-23-32) Fl bud.

703

6-3-32 Cynosurus echinatus L. var elegans Bon v Del. Ku I 318 = C. polybracteatus Poir Bar 505 = C. elegans Desf Bon 365, Cote III 627 Fl. Puig Kroo

or in ravine. Aff with C. declinatus st. very slender, 7 in high. 1 mm wide.

"A" Diff from C. declinatus in that (1) the slender thin short branches of infl are visible from one side making a dainty lacey effect. (2) ~~the glumes of sterile fls fewer, much narrower (almost setaceous) & remotely spaced~~ (3) lemmas & glumes of fertile fls ~~(or better fruiting ones) all over~~ upper sterile glumes also long & similar, the lower ones much ~~longer~~ shorter 2 spiklet 2 sterile fls arranged as in C. c — (i.e. spaced glumes below & a bunch of several broader glumes at apex) but the lower spaced glumes are fewer, narrower (almost setaceous) & less regularly spaced and all are puberulent-hispidulous (only slightly hispid on edges & midnerves or if rough elsewhere effect to eye (20x) is almost glabrous in C. c —) 3. Fertile fls arranged as in C. c — but the thin glumes almost setaceous (in C. c — 1 mm wide) and lemmas def. puberulent (in C. c — only hispid) Also glumes not more than 2/3 as long as spikelet (in C. c the glumes def longer than lemmas) 4. Awns of lemmas 1-1½ as long as lemmas (in C. c — Awns of lemmas 2½ - 3 times as long as lemmas Note: in this matter of length of awns Conta is to the contrary. Only 1 spec like this collected

"B." Several spec collected in which awns were longer (i.e. to 2 v perhaps more times as long as lemmas) and spikelets no more puberulent than in C. c but otherwise like "A."

6-3-32 Cephalanthera grandiflora Bab (See 5-11-32) Adv. fr. Puig Ros-Vega gorge. Pl mostly erect with 6 strongly marked, light-colored ribs. Plants seen of various heights & with varying number of peds. The one collected was about with a terminal ped only.

6-3-32 ??? Cephalanthera ensifolia Coste III 412, Bon 308, Bar 589 = C. longifolia Fritsch BUH 455, SVT I 168 [Kn I 412 see note on C. grandiflora Bab 5-11-32] Rare fr. Puig Ros-Vega gorge. At least several plants seen all without at tip just as this but thinly inserted. Lvs. def different than C. grandiflora, "distiques" & almost as, those in middle of st 50-90 mm long with internodes 10-15 mm

6-3-32 Crucianella latifolia L. (See 5-17-32) Fl. Puig Ros-Vega gorge.

704

6-3-32 S specularia falcata DC or S. castellana Lange (See 5-9-32 and 5-28-32) Fr in various stages. Sts & calyx tube def roughened. As far as can be judged the corolla was much shorter than calyx lobes. Does often fr ripe the remains of corolla

3-mm. high & the calyx-lobes (arched much like ill (Cat.) of S. falcata 10-15 mm. long.

[The same day & in same region R.B.K. saw & Mrs. Kennedy collected a plant which seemed similar but with a large corolla like R.B.K's of 5-23-32. R.B.K. did not study it later as to ovary, nectaries etc.] [See note on Kew ident. of 5-23-32]

6-4-32 Galium [not seen by R.B.K.]

Col by Mrs. K on Puig Mayor was identified by Kew as Galium divaricatum Lam. When sending Mrs. K thought it the same as her Galium of June 21, 32 from Fontanellas & of June 22 '32 from Vega & perhaps same as R.B.K's #700 of June 3, 31. R.B.K. has seen the specs of June 21 & June 22 dried but comes to no conclusion

6-4-32 X cranthemum inapertum Mill Ku 483 Bar 581, Bon 82, Coste II 405 Early fr. From Mrs. Kennedy, Puig Mayor. Sp. ample 3-4 cm high. Scales [illegible] acle not "tripartidas" (Bar) & not heady 20 flo in each head (Bon)

704A

6-4-32 Euphorbia Mareisii Knoche var balearica Knoche ~~Knoche~~ E. Rouyi Salis var balearica Willk Ill II 152 Tab CLXXXII Ku II 162 (III Tab XII & XIII) & XIIC Fl & fr. From Mrs Kennedy Puig Mayor. "cut out a bush of Teucrium subspinosum" As ill ~~Knoche~~ Willk except seed grooved as ill Ku. Seed 2 mm long. Lvs 4x2+ mm. Evidently Knowas E. Mareisii Knoche

6-4-32 Sorbus Aria Crantz. Ku II 47, Bar 168, Coste I 72 (perhaps one in A. nivea Host Bon 103) Fl. From Mrs. Kennedy Puig Mayor. Lvs almost orbicular 8x7 cm, upper side may be finely "ridées" when dry (Coste), when ~~dry~~ dry

6-4-32 Arenaria grandiflora L. var incrassata Cosson ~~A.~~ Ku I 452 = A. incrassata Lange Bar 69 See A. grandiflora L. Coste I 208 & A. grandiflora All Bon 49 Fl. Mrs. Kennedy from Puig Mayor

9 cm. high.

6-4-32 Crucianella angustifolia L. Kew II 415, Bar 237, Bon 144, Coste II 258 Early bud. From Mrs Kennedy. Puig Mayor. Plant 4 cm high forming when pressed like some sort of seedling juniper. Cfd. with C. latifolia L. (6-3-32)

6-4-32 Santolina chamaecyparissus L. Kew II 473 Bar 249, Bon 168, Coste II 349, B.M. CP. 963 All in fl. safe. From Mrs. Kennedy from Puig Mayor. Cfd with plant cult in garden Infanta 8.

6-4-32 Helianthemum polifolium Pers var virgatum Nym. Kew II 302 = H. virgatum Pers Bar 49, Dec H. polifolium DC. Bon 35, Coste I 150. Fl
From Mrs. Kennedy from Puig Mayor.
A. Fl def. bright red.
B. Fl white.
} Small other respects seem the same as Coste description fits both except as to color of petals.
Mrs K. says "plenty of both pink & white, in the precipice but most in the ground."

I Kew says P. lanceolata L. form erecophylla Desn ?

6-4-32 Plantago
Fl. v young fr From Mrs Kennedy from Puig Mayor.
7 cm high. Peduncles very slender faintly striate.

6-4-32 ♂ fruits covered with appressed brownish hairs (hardly silky). Heads globular 5 mm. diam. This is prob. P. lanceolata L. (this & drawing below) but consider P. argentea Chair. Bar. 381, Bon 259, Coste III 149 (Kuntze 411 thinks it mistakenly reported from Balearics). Plant does not seem silky enough and bracts & sepals not absolutely glabrous. P. monosperma Forsk. is considered but bracts not "emarginées à aiguillon" (Coste does still). Only one seed developing (in the 2 fls examined.) Lvs lanceolate, 25 x 3 mm. (seem rather falcate after coming through the mail) 3-nerved, ashy pubescent (not silky), but the bases of bracts showing between petioles conspicuously long white shining silky. Young axils bear minutely pimply or hairy.

6-4-32 Helleborus foetidus L. Ku. I 476, Bar. 15, Bon 9, B & H 13, Coste I 46 Envoi de M. From Mrs. Kennedy from Pine Mayor.

6-4-32 Specularia falcata DC ♀ S. exaltata Lange Fl. From Mrs. Kennedy from Pine Mayor. Corolla far longer than Calyx lobes. Calyx tube rough [see note on Mex. sheet 5-23-32]

6-4-32 705 (Spec returned to Mrs. K 9-11-32)

~~777~~ Laserpitium gallicum C. Bauh. Ku. II 250, III Tab XLIII. = L. gallicum L. Bar. 198, Bon 125

Coste II 169 1 ♂ only From Mrs Kennedy from Puig Mayor. Very like ill known. [Query: was this the plant seen only in ♀ in 6-3-32 Puig Major - Vega gorge ∨ (12) was at the plant seen with large white umbels of ♂ on inaccessible cliffs 6-10-32 on Teix.

6-5-32 ♀ Pulicaria odora Rchb. Kn II 465, Bar 254 Bonn III, Coste II 315 Early fl. From Mrs Kennedy from Valldemosa. Only infl. sent so hard to judge whether this is P. dysenterica Gaertn. Involucral bracts many, very narrow ∨ long acuminate, more or less purplish at tip, long-hairy woolly rather than hispid, very frosty in ♂ feet (esp. in bud) Rays deep yellow, very narrow ∨ (= long) shorter than bracts. Red. neither "grêle" nor def. "parasitaire comme" (Coste) Whole plant rather cottony with long pale white hairs (minutely tuberculate based); less rather than so above. Most adv. head 2 cm diam; whole disk is 1.5 cm. = Inula odora L. Bon 171

[6-17-32 Whole plant. From Mrs Kennedy, Valldemosa. Roots thick and thick (might be called slender elongate tuberous ∨ a faint odor discerned) less very cottony on underside ∨ at less without prominent muricles; 2 ♂ and ♀ heads correct.

P 206

6-6-32. Erodium Chamaedryoides L'Herit. Ku III 131, IV Tab III. = E. Reichardi DC. Bar 83 Fl 9, young fr. From Mrs. Kennedy from Korek Blau. Lvs 10-15 mm diam. Petals white. Beautifully veined purple. Pedicel pubescent with spreading hairs; lvs glabrous. Sepals appr. pubescent, obtuse with short apiculate tip, with a tuft of hairs at the base. Petals white with purple veins on inside & claw. [1935 plants abundant at Fermentor]

6-6-32 Linaria aequitriloba Dutby (See 5-28-32) Fl From Mrs. Kennedy from Korek Blau. Q ~~abundiss~~ slightly less fragile plant than (5-28-32) & with less all more nearly like ill (Coste) & insect in Tab XLIII Ku III but on comparison with dried apace (5-28-32) seem surely the same. Corolla the same & except the 2 colorings & palate not as bright especially the 2 yellow spots at tip of palate. Corolla 8 mm high from top of sac, spur 3 mm long or Corolla about 10-11 mm overall.

6-6-32 Draintlus parviflora L. Ku II 478, Bar 65, ~~Bar~~ B & H 62, Coste I 190 = D. proliferus L Bon 47 Fl. From Mrs Kennedy from Korek Blau.

6-6-32 Hypericum Cambessedesii Cosson Kit II 183, Bar 86 Young shoots & old fr. From Mrs. Kennedy from Sorde Blanc. As far as material shows this is quite right except that no transparent dots can be discerned even with electric light (Bar & Kodaq thus should be). Plant entirely glabrous. Night will be an arbuscule 4-6 decm. Br branched & branches flattened with 2 longitudinal lines & wavy ribs, dark green & shining above, lighter but hardly blanquecina beneath, sessile, entire, ovate, rounded (not at all cordate) at base & blunt at apex; the largest now 4 3×20 mm. On the old shoots (now) 1-3 capsules, 8 mm (perhaps more) overall on pedicels 1-3 mm (or more). Capsule with many fine longitudinal ridges, 3 celled, with subulate styles (styles) 2½ mm. Electric light & microscope (20×) show the transparent dots plainly & plentifully.

6-6-32 Ranunculus sardous Crantz Kit 491, Bolt II, Costa I 27 = R. phelonotis Retz. Bar 12, Bon 8. Fl & infra fr. From Mrs. Kennedy from Sorde Blanc. 6 in high. Fl yellow 12 mm diam. Sepals & petals 5 each except that 1 fl st. & lvs punctually glabrous (but sepals certainly no more than ½ as long as petals R. trilobus does seems ruled out) Note: the sheathing bases & petioles def. long ciliate. And (2) none of lvs with middle lobe stalked as desc (Bar & Bon) and as ill (Costa). The basal lvs (now today to be sure) and the middle lvs.

6-6-32 middle between more like Coste's ill of R. parviflorus. But the def grooved pedunculate, hairy receptacle, sepals reflexed 8½ as long as petals all right. Carpels about 17, the only one now nearly ripe 3×2½ mm flat with prominent thin-edged border, & about triangular, almost exact tip, the sides covered with low tubercles except for a smooth spot in center: hence carpels just as disc.

6-6-32 Melica Bauhinii All. Ku I 316, Bar 503, Bon 364, Coste III 620. Bud From Mrs. Kennedy from Rock Blan. Sheaths glabrous (Coste) but "ex strada vicinia" (Bar). 1st glume 6×3 mm broadish acute, 2nd glume 8×3 mm acuminate hemma 7 mm, very rough on back but, near the edge (not exactly on the edge) clothed from base to middle with silky white hairs some 3 mm long. Pedicels very pub. just under spikelets. Lvs rolled setaceous & ligules conspicuous Query: Was this M. seen but not collected 6-3-32 in Puig Leon-Vega gorge the same as this?
[Ans: Prob. not as M. minuta L. Common on Teix 6-10-32 and M. minuta L. only col. by Mrs. Kennedy in Puig Leon-Vega gorge 6-17-32]
P
[Ident. by Kew]
6-6-32 Delphinium pictum Willd Ku I 479 Bar 17, Bon, Coste I 57 Fl ruminjae fs. From Mrs. Kennedy from Rock Blan. Cf with D. Staphisagria L. in Ecuador. also sent by Mrs. K. from Valldemosa. Only upper parts of plants sent & these look Calabra Road.

much alike but there are three def. differences.

	D. a—	D. p—
Peduncle in fl	10 mm	5 mm
Peduncle in young fr	15 mm	5 mm.
Pedicels " "	curved so that folioles point toward axis.	curved upward & follicle erect.
Sepal limb	8 mm	13 mm
apiculus	2½-3 mm	5 mm
spur	blunt ventrie at tip	blunt with 2 short but def. horns or lobes at tip.

Note: The comparative def in length of apiculus seems greater to the eye than these measurements would indicate. The shorter pedicels make D. p— much more compact & apiculus like. Can't see the def in petals &c. by Cat.

Follicles too young to help. But see 6-10-32. Venation in D. a— makes it highly likely this belonged to that species. [Later specimens] D. p— show the 2 species quite distinctly different.]

6-6-32 Vicia tetrasperma Moench var pubescens Bon & Debay (See 5-5-32) Fr. alone type. From Mrs. Kennedy from Knox Blair. Peduncles 1-2 fld & sometimes slightly striate. Pods nearly glabrous but not typical plant &c. pub. Seeds 3-4. Velum rather wavy short. Checked with the 5-3-32 specimen and satisfied that they are the same.

~~6-10-32 Delphinium ajacis Linn. (See 5-29-32, Bonnet, Coste & Sol Early fl. Valladolid, many rays) Fair.~~

6-7-32 ?? Albizzia lophantha Benth (See 3-2-32) Immature fr. from same tree as 3-2-32. Pod abt pale 8 x 2 cm over all. (part of the pods longer) strap-shaped, no pulp between seeds. Flat except for the conspicuous bulge of the large (12 x 7 mm) seeds, lying crosswise. Margin acute smooth, rather evil-looking when crooked. Identical in B.M.J.C.P.

6-7-32 Celosia Cretica L. Kuntt 368, Bak 335. BMJCP 674, Coste II 623 Buda x unripe fr. No flo spec. From Mrs. Kennedy from Son Mas, Valldemosa. St. as Col 17 in high No basal lvs col. Plant hairy v, nis upper part glandular, but not at all woolly. St with 4 faint dark ridges from base of lvs, but lvs could not be called decurrent. Lvs thinnish, oblong, serrate, all sessile v strongly cordate clasping, acute at tip. Bracts similar, the lowest only slightly smaller than uppermost lvs. The upper bracts similar but progressively smaller & becoming long acuminate. Infl nar & in long. Bracts all longer than calyx. Calyx lobes ovate, lfy. dentate, in the lowest 15 x 10 mm. Raceme looks very lfy because of large bracts. Pedicels about 4 mm long. Stamens 4, the 2 lower with filaments glabrous (BMJCP & Bak & Coste & the contrary) the 2 upper with violet pubescence. Pods ovate, glabrous & shining, strongly apiculate, the largest more almost 10 mm. Little (ie. shorter than calyx - Exactly like ill. Coste) bract, calyx & pod.
[6-13-32 Fls & basal lvs from same place for exact identification]

6-10-32? Cirsium lanceolatum Scop var eclinatum Rouy 491 (Bar) = C. eclinatum DC Bon 175, Costa III 378 = C. Willkommianum Porta & R Willk Ill. Tat CIII. Burd. Shoulder Teix. No one mentions the striking effect of lower bs which have tomentum at edges & upper surface, the green

P 708
6-10-32 Rosa
1-2 v young fr. Teix. Very blackens well) R. agrestis Savi (= R. sepium Thuill) Costa III 54. See Bar 163 and Rouy 52. Sts with strong, broad based, downward curved spines thorns, otherwise glabrous & smooth L fls to 7, narrowed at base & often at apex, dark green & glabrous above, lighter beneath & with stalked, red, gland-accented glands as are also the doubly serrate edges. Upper stipules & bracts broad. Pedicels glabrous. Sepals three entire sepals glandular on edges (not on back) & with long narrow appendages. Ovaries elongated, glabrous. Petals with with a classical faint tinges of pink. Styles free & glabrous. Fls white very in in corymbs. Sepals reflexed after flowering.

P 709
6-10-32 ? Anthyllis Vulneraria L. var. rubriflora Rouy (see 6-3-32) Fl & fr. Puig Roig near top where path descends toward place where found 6-10-32. Fr 4 x 2½ mm on stalk 3 mm

6-10-32 stalks 3 mm. Sts 3-4 erect or spreading none over 6 in long. Sts manally naked but the basal lvs v heads but one apex & very lfy because abortive heads had tried to form the full length of st. In many fls in these latter heads had developed & the palmately divided bracts look like lvs.

6-10-32 Convolvulus pentapetaloides L. (See 5-6-32) Fl & unripe fr. Valldemosa Filld at beginning of many up Teix (just beyond the large private estate). Peduncles with 2 minute bracts about middle.

P 710
6-10-32 Linaria supina Desf forme pruinosa (See 5-14-32)
Fl & fr. Teix.

P 711
6-10-32 Galium Mullugo L. var cinereum Brig.?
(See Knuth 418. See Bar 220-221, Coste II 248-9. Fl
Teix. St. smooth with the prominent angles lighter
colored. Lvs slightly roughened upon the edges
otherwise smooth, midnerve prominent beneath
(& same color as edges of st) & depressed above.
Lvs. linear ±10 × ±1 mm. Infl a narrow compound
panicle. Corollas 3 mm diam with very long inflex-
ed tips. "A" Panicle narrow (fls in bud & early anthesis)
anthers yellow (oldest are turning dark), effect of
whole to eye is def. yellowish.
P 712 "B" Panicle narrow but with branches longer

v more extended than "A". Anthers originally yellow now (flowers later stages) mostly black. Especially panicle & eye is dark reddish. But corolla corollas of "A" "B" without stamens very nearly the same color.
Ovaries in both A & B. glabrous.
[Specimen of May 19, '32 From Mrs. Kennedy from Teix seems same as "A" "B" - Corollas now even more yellow than "A"] See note under 6-25-32

F 713
6-10-32
? Galium rubrum L. var. calcareum Kuvela (See 6-3-32) Fl v f. unipafe. Frequent on Teix. Not even same thing as same as (6-3-28).

6-10-32 Rhamnus licioides L. (See 4-7-32) Fl v unipafe. Teix. frequent especially on path along Puig Ferro. Very thorny. Most like Pl 1 # 2205 in Kerner Tab II. Fr now 3mm long turning reddish 2-3 celled (1 or more cells often empty). Calyx lobes fallen so that top of tube is entire.

6-10-32 Delphinium staphisagria L. Kuntze 479, Box 17 Box 10, Cortes 51 Early fl Valldemosa on way up Teix. Pedicels of flowers sometimes to 15 mm, spurs 4 mm 2 lobed at tip. Carpels of young fr not erect. Corolla very pale.
[Specimen of June 11 sent by Mrs Kennedy from west slope of the Vega had pedicels still longer

6-10-32 longer and, ~~the corolla~~ dark blue] Sm tri-blue
sepal limb about 10 mm v apex about 5 mm.

P 714
6-10-32 Crepis Triasii Willk (Rec 5-23-32) Fl o fr. Teix
Achenes which seem full grown 6 mm long x about
3/8 mm wide, tapering gradually to tip. The beaget
white pappus with no hairs more than 5 mm (the
shortest about ½ as long) v pappus lookeny to eye
def. shorter than achene. Fertile achenes now orange
the few sterile ones in the center white. Ribs rough.
Pappus hardly as long as involucre bracts, ra ~~little~~
longer

P 715
6-10-32 Orobanche
Fl. Teix on knoll w of Pallarès Puig Greo. Pras
O. picrides Schultz, Kn II 401. See Coste III 73 v
B & H III 276 (which disagree at last as to color of
stigma) Fls 15 mm long, yellowish with purple
markings. Stigma dingy purple. Filaments
inserted 3 mm above base, ~~f~~ and hairy (not
densely so) below middle. Bracts as long as flo

P 716
6-10-32 Orobanche
Fl. Teix on slope above the inaccessible umbilifer
(about as high as meg ✝). This is of the Phelipea
group have 3 bracts all much shorter than corolla

St. strongly swollen at base. St. more 2½ in above swollen base, the infl being 1½ in with still more bud at top. Fls 18 mm or all, of a deep cream-color with no hint of blue. Stigma same color. Fls overlap at nt ½ their length and plant has among the slender effect of O. balearica Sens Pau Kn III Tab XLV.

6-10-32 ? Lathyrus saxatilis Vis. *717 to E.W.K.

6-11-32 Lenzia conferta L (See 3-9-32) Fl Sent by Mrs Kennedy from Valldemosa. Corolla 32 mm long. Pappus 2.5 mm long. Very young achenes def. rough-pimply

6-11-32 Stachelina dubia L. Kn II 507 = Stachelina — L. Bar 272, Bon 155, Coste II 408 Bud From Mrs. Kennedy from Hermita de Valldemosa.

T 7.18
6-12-32 Stachys germanica L. Kn II 339, Bar 367, Bon 253, B & H 368, Coste III 120 Fl v young fr From Mrs Kennedy from Valldemosa "Has come first 3 weeks ago." Plant grayish with long white silky hairs. Calyx with ring of long hairs inside at throat & teeth somewhat hairy inside. Calyx teeth not markedly unequal.

T 7.19
6-13-32 Phlomis italica L. Kn II 334 = P. — Smith Bar 368 Fl From Mrs. Kennedy from Pladel Rey C. Valldemosa. Shape of leaves much as in above but plants easily

even with no fls.

6-13-32 easily distinguished, as P. is densely covered with yellowish scaly wool. Calyx tubular with 5 short teeth (not at all spreading & spinescent as in S.) slightly pouch-inside around top but with no ring of hairs. Corolla as does for genus; upper lip densely scaly-woolly outside (unless 3 anglets be). 2 lobed at top. Queer: What does Bar. mean by "dos hojas florales pequeñas"? Leaves subtending upper whorls of 3 x 1.5 cm. & larger.

P 720

6-13-32 Scabiosa cretica L. Ku II # 38, Bar 293 Fl & nutlipe fr. From Mrs. Kennedy from Valldemosa cliffs across port. Cfl with S. maritima L. from Terreno.

6-13-32 Ammi majus L. Ku II 237, Bar 208, Bon 133, Bon 184, Cort II 210 Fl & young fr. Terreno.

6-13-32 Thymus Capitatus Hoff & Link. Ku II 356, Bar 357. Fl. Terreno

6-15-32 Ajuga Iva Schreb. Ku II 313, Bar 371, Bon 252, Cort III 135. Fl. From Mrs. Kennedy from Torrente del Teix c. Valldemosa. Corolla purple. This is the 1st normal fl. seen by R.B.K. in Mallorca tho many plants hitherto collected with fruit all stages & with corolla abortive.

7214 E.W.K.

6-15-32

No flo fr. From Mrs Kennedy Torrente bel Teix, Valldemosa "In the bottom of the valley & bet. the Villa Sa Coma & the point at which we left the car on June 10. on bank & trailing toward water, another under a rock near water". Same plant as "found Faket de Son Grual". "Very slender & clumbly the old branches making a bat weak thicket" [This is perB T. maremm & forme subspinosum the dif. from usual form explained by its growing in lower maritime ground. 6-25-32 at Cala Blanca plant was seen which formed a connecting link]

6-15-32 Clematis Flammula L. Kn I 481, Ber 7, Bon 4. B M 3 CP 278, Coste I 35. Fl. Bellver. Sepals almost glabrous on ♂ side

6-15-32 Teucrium Chamaedrys L. Kn II 323, Ber 372, Bon 257, B & H 374, Coste III 135, B M & C P 651 Fl. Bellver. [Sendas Valldemosa & hillsides] Less nos softly pubescent and not shining above.

6-16-32 Melica ciliata L. Kn I 315, Bon 364, Coste III 620 or M. — 1 forma Magnolii Kn I 316 = M. Magnolii Gab & Sch Bar 502, Coste III 620 Fl. From Mrs. Kennedy from Valldemosa. Charmingly creamy white, slimmy & silky. Stuff 15 cm long.

6-16-32 Epilobium tetragonum L. Kn II 221, Bar 160, Bon 105, BH 159, Coste II 79. From Mrs. Kennedy "Farm on Valldemosa-Deya Rd." Only mfl. sent. Stigma "en maza". Fl 6 mm high, the petals hardly longer than sepals. All leaf pods now seen.

6-16-32 Stachilina dubia L. (See 6-11-32) Fl. From Mrs Kennedy from Hermita Valldemosa. "Plumy tails to antlers" visible (30x). Scales of receptacle seen as dentate petiolate at base

6-16-32 Trifolium fragiferum L. Kn II 83, Bar 127 Bon 78, BH 118, Coste I 341 Fl. From Mrs. Kennedy from Valldemosa. Calices already swelling in oldest fls. Pedicels & petioles almost glabrous (Bar.) (Coste hairs common)

6-16-32 Rumex conglomeratus Murr. Kn I 432, Bar 401; Bon 272, BdH 395, G 356, Coste III 199. Fr. From Mrs. Kennedy from Valldemosa. Only insufficient, but no doubt of identity.

6-16-32 Mentha Pulegium L. Kn II 360, Bar 355, Bon 248, BdH 360, BMJ CP 648, Coste III 81. Fl. San Rafaña. Erect, 3/4 ft high with many branches (spreading slightly upwards) above middle. Rung glands at throat of calyx & the slightly gibbous corolla bear no doubt abundant. Ls in middle of st. 4x2.5 cm v deltoid dentate, those on branches smaller. Fl. whole has a rather soft misty look because: Corolla once again as long as calyx; pubescent on outside; lobes of limb deep; stamens still further exserted.

6-16-32 Ailanthus altissima Swingle. BMJ CP 448 = A. glandulosa Desf. Bar 101, Bon 65 - Fl & Cult. La Victoria. Base of the small petals in bulbate forming part of claw. Thin base of filaments pubescent. Nos ♀ flo found on ingl. collected.

6-16-32 Chenopodium album L. ~~Coste~~ Kn I 438, Bar 396 Bon ~~246~~ 269, BdH 387, G 367, Coste III 186 Fl. La Victoria. Cfd with C. murale L.

6-16-32 Ajuga Iva Schreb (see 6-15-32) Fl. Rd from La Villeta to Cemetery (only) plant found. Corolla yellow; since this is the form A. pseudo-Iva Benth. Bot 371, = A. ——— Rob. Cate III. 133. Upper lip of corolla truncate-dentate. Corolla rather pale yellow but tinged with darker inside & dotted purple. Corolla pubescent both sides, with ring of hairs near base of tube inside. Filaments hairy. Anther cells when open make another loop like small flat disk. Cfd into Teucrium Chamaedrys (6-15-32) for def of genera.

P 722

6-16-32 Linaria laniger Desf Kuth 376, Bar 899 Eulip Fl. La Villeta. [This is prob L. found without flo 5-13-32 (# 668) with L. commutata Bernh near Establishments & seen again without fl. in field starting up 7 in x 6-10-32] Less all alt. & very slant petioled. Lowest oval to 3 x 2.5 cm dentate towards base; uppermost less than 1 cm entire. Upper lip of corolla def shorter than lower lip & def purple; lower lip white with purple blotches on palate. These blotches [not dots as in L. commutata (5-13-32)] also as 4 irregular stripes. Corolla 8 mm from top of pet. to tip of lower lip. Spur slender, acute & not much enlarged at base is def curved (5 mm in straight line from base to tip). Pet all shorter than lvs. Calyx lobes ~~not~~ tall narrow

not at all "acerazonado-aovadas" as desc for L. Spuria.

P. 723

6-16-32 ? Lippia nodiflora Rich. Kn II 312, Bar 395, Cate III 141 Fl. Rd from La Vileta towards cemetary (at corner where rd forks westward) Silent guerrilla only because the creeping sts are thick & woody & branches not filiform (Bar. Cate) (Possibly this plant spreading on rock, as remembered there were other plants more as would be expected - not L. because less easy to secure the branches. Fls rosy with yellow throat. All the herbaceous parts covered with short, white, closely appl'd, upward pointing hairs (best plant could but be called "canescent" as is L. canescens HBK Bm 3 CP 6 S.D. Sec Kn I 59). Outside bracts broader & below middle, somewhat keeled, obs acute; other bracts broader above middle & abruptly acute. Bracts reddish towards tip, the presence of the appl'd hairs & broad apex gives them a slightly ciliate effect, similar to that on keels of Calyx

6-16-32 Daphne Gnidium L. Kn II 211, Bar 406, Bon 295 Cate III 214. Fl. Sn Rafina.

6-16-32 ?? Allium rotundum L. var ampeloprasum Kn I 368. = A. ampeloprasum L. Bar 437 [See A.

6-16-32 [Sect. ampeloprasum] Bon 299, Cat. III 839] FR Son Vida. "A" This is R. of 5-13-32 which has since been commonly in fields & roadsides on entire trip esp. 5-29-32 on way to Santañy & on trips to Valldemosa. St 4 ft, lfy ⅓ to middle. Fl-head globular, large (6 cm diam) & very many flo. General effect a darkish dingy purple. Rosa sepal color is of leafs. Stamens as in (5-13-32) i.e. anther bearing point less than ½ the length of the next of filament & the 2 sterile points more than over-topping the anther. Stamens well exserted (the tops of the broad parts of filaments alone plainly above perianth) Style about same length as these broad parts of filament & therefore is expected beyond perianth & thus long-exserted. not look exserted (perhaps this was equally true (5-13-32) Anthers of same purplish tinge as perianth. Note: this does not agree with desc. of R. ampeloprasum as given in Bonn Cat. Leaves rough on edges & keel esp. toward tip.

"B" St 9 in, lfy ⅓ length. Fl-head less def globular, 3½ cm diam of only about 30 flo. Fly paler as that of peel of head is dingy white with the purple (a greenish) stripe on backs of sepals showing plainly. But in all other respects this seems same as "A". This too has been commonly seen in Bellver & elsewhere, & even much taller & with more flo. Spathes not fallen & can't tell if orginally long-pointed as in "A". Conclusion: "A" & "B" & all the forms between seem up to date are the same.

6-16-32 Crucianella latifolia L. (See 5-17-32) Fl v
unrepr. Infl 7-16 cm long. Thiss are first apace. To
justify "épis très longues" (Coste) asthme from
Valldemosa region had been ± 6 cm.

6-16-32 Atractylis cancellata L. Kuth 485, Bar 274,
Bon 182, Coste II 368. Fl. Son Rapiña. A very few ext.
fls (4 in the case studied) longer & ligulate & extended.

6-16-32 Lenzea conifera DC. (See 3-9-32) Fr. Son Rapiña.
Achenes a very dark bronze, def. rough, 4 mm long, fu-
siate, with a rim at apex, one die oblique. Pappus bright
white, 25 mm long.

1 724 (See 6-3-32)
6-17-32 Anthyllis Vulneraria L. var balearica
Was only From Mrs Kennedy from Puig Gros-Vega Gorge

P 723 ~ 726
6-17-32 Scutellaria balearica Bur. Fl. From Mrs K. P. G-V. gorge
"A" Flo white. "B" Flo as usual (Estret de Son Gallart)

P
6-17-32 Galium 727 726
From Mrs. K. P. G-V. gorge. "A" large branch. "B" small branch

P 729
6-19-32 Pulicaria odora Reichb. (See 6-5-32) for notes.

6-18-32 Limoniastrum monopetalum Boiss.
Coste III 165, Bon 364. Fl Cult. Shrub on wall Salad.
Terreno. Fls. seem to be 2 in each spikelet; the spikelets being grouped in 3's or 4's at each node. Infl. The (a) bract subtending the group is broad & "en coupe dies oblique" as does still (Coste). Each spikelet has 2 deft bracts the interior (A) is thick (spongy), almost as long as calyx & tightly encloses the 2 fls (so strong & tough that it is hard to open up); the other bract (C) (present at least in some cases) is almost as long & broadly linear-spatulate. Besides these there are subulate bracts (B) which may sometimes take the place of bract (C) but R.B.K cannot be sure that the number & arrangement prove that they do so, and only do so. Base of corolla tube has 5, bright orange oblong elevations (probably represents base of filaments but not sure. Infl has a faint but agreeable mealy fragrance. Twigs of plant root easily in water.

6-18-32 Poinciana Gilliesii Hook (= Caesalpinia — Wall) BMP CP 4255. Fl Col & fr seen. Garden Terreno.
Sepals (usually 3-4) large & light yellow-green, oblong, concave to 25 X 10 mm, pubescent outside & also pubescent with stalked, red glands, similar to those on upper part of pedicels. Filaments 3 in long, ± glandular-pubescent inside at base. Ovary glandular-

ular and also densely covered with silky, non-glandular hairs / fls frequently back a few black dots on edge, nerve many. Lvs. sometimes appear odd-pinnate, the pinnae being irregularly & alt. spaced (B.M.J.C.P.)

6-18-32 Teucrium flavum L. Kn III 324, Bar 374, Bon 257, Coste III 138 Fl. R. Terreno - Genova slightly above the tram-way junction

6-18-32?? Umbilicus vulgaris L. var ~~pendulinus~~ ~~Knoche~~ gaditanus forma majoricensis Knoche Kn III 45 = U. horizontalis DC. var majoricensis Barceló Bar 184. Suffrutex Europe fe. Sent by Mrs Kennedy from Sa Comuna, Valldemosa with an infl. of the common form for comparison. The plant in question has fls more at 1st 1/2 to 1st, many more of them & closer together than in common form. Also fls more cyclic Corolla slender, with shaper teeth & more def. 5-sided. Calyx lobes rather thinner & with sharper teeth, bracts more slender & sharper at tips. In short the plant has not the clumsy, poorly modeled look of the common form. No lvs. to compare. Note: both plants 3-merous & bracts much longer than pedicels — often nearly as long as the fls.

P 930

6-18-32 Anthyllis

Fl. From Mrs Kennedy Valldemosa "La Beata"

P 731
6-28-32 Malium
From Mrs. Kennedy, Valldemosa "Sa Comuna"

6-20-32 Cynanchum acutum L. KuH 293, Bar 310, Bon 212, Cote II 547 Fl. Arenal. Torrente at end of stream plentiful. Staminal tube cup-like with 5 subulate teeth alt with 5 reaching ~~the~~ base of petals. Ret. three teeth the tube notches outward folds. Appx ~~the~~ and a little below these teeth on inside are 5 other teeth straight, narrowly linear, their tips more or convivent over center of fl.

6-20-32 Lactuca virosa L. KuH 582, Bar 285, Bon 187, Bol 211 II 235, Cote II 432 Fl. of fr. with a bower. Achenes dk. purple-black, roughened by transverse wrinkles (these near summit sharp) but could not be called hairy at summit. Edges seem thin rather than thick (Cote) Basal lvs. sinuate dentate (not at all divided) St. lvs, strongly auriculate clasping, sinuate-dentate, not divided (except the uppermost which are lobed toward tip.) Bracts & involucre green. Plant with no tinge of purple except what is inherent in the pronounced glaucousness of lvs. St very ~~leafy~~ with lvs longer than internodes & growing progressively smaller until they merge into the strongly auriculate clasping bracts. Pores. some lvs bend & stand on edge (or this may be due to packing in box) but not only a few & not definately. Milk very

Capricum. Plant very like ill B v H II. Note that this is some respects seems more like L. Scariola L. and might be a vary with undivided lvs. except for the color of achenia.

6-20-32 Crucianella maritima L. Kn II 415, Bar 236 Bon 144, Coste II 257 Fl. Arenal.

6-20-32 Mesembrianthemum crystallinum L Kn I 447, Bar 186, Bon 112, BM 7 CP 257, Coste I 122. Same place as 11-22-30 i.e. a home as tram way shortly east of Can Pastilla v perhaps a wee spot. Growing well along west v south walls v found also in tram route.

6-20-32 Medicago marina L. (See 3-12-32) Ill fr. Arenal. In all but one case fr. had fallen v was found at base of plant. Pods very woody v the short spines hidden in the wool. No detached one in center of the spirals. But probably seems sure.

6-20-32 Ephedra fragilis Desf (See 5-17-32) ♀ Fl v immat fr. Arenal. Beyond tram terminus toward Cas de Cesc (Coste)

6-20-32 Medicago sativa L. Bar 114, Coste I 322 etc Fl. Can Pastilla. Escape from fields where now coming into fl.

P 731 A

6-20-32 Atriplex arenaria Woods Kn I 439 = A. crassifolia C.A. Mey Bar 395, Bon 367. Prod = A. sabulosa Rouy (= A. arenaria Woods) Bol 391 & per p = A. Tornabeni Tin (= A. crassifolia G & not C.A. Mey) Cost III 177 Fl & fr. Can Pastilla-Arenal. This is the very mealy decumbent A. found along beach track & in profusion by mill ghouse & not the upright mealy A. found at Arenal not yet in fl (per). A. rosea. Stems stout & hard (seem woody) and almost round (not L as in A. rosea L is smaller than in A. rosea & veins not showing plainly as in A. rosea. Outline flow much as in ill (Bon) but stem more deeply sinuate-dentate, not like ill (Cost). Fr. stem much as in ill (Bon) but with lateral lobes dentate (Diff from ill Cost in that base & middle lobe are usually with straight to linear sides & fr usually as high as fr with) No tubercules on valves. One or several of next glomerules subtended by L's, but most of mgl without L's.

6-20-32 Polygonum maritimum Willd. Kn I 394, Bar 493, Bon 356, Cost III 574 Fl. Arenal-Can Pastilla.

732

6-20-32 Triticum junceum L. Kn I 337 = Agropyrum —— Beauv. (Bar), Bon 370, Bol 545, Bol Hall 474, Cost III 665 Fl Arenal-Can Pastilla.

6-20-32 Juncus maritimus Lam. Kn. I 360, Bal 471 Bon 320, BVH 490, G 373, Cosson III 448 Fl. Arenal. Torrente just beyond tram terminus. With J. acutus v Cynanchum.

P 733

6-20-32 Teucrium Polium L. var. Polium (see 5-29-32) Fl. Arenal

6-20-32 Statice echioides L. (see 3-12-32) Fl. Arenal, common on rocks) Coast beyond tram end. Lvs mostly withering but likewise 3-3 v 4-4-32. Infl easily recognized by its cavilking branches. Corolla small.

P 734

6-20-32 Statice

Fl. W. stth above v abundant & plentiful. Mustacce to ~~Cosson~~ Kn. III 372-4. be S. confusa Godr. or S. duriuscula Ler. But Cosson III 165 & 6 not conclusive. Calyx tube is hairy v. tho less short v. obtuse (before it begins to split as sometimes after flowering) v fl. dark but only 4 mm. diam. But lvs & infl look more like ill. of S. duriuscula and lvs are obtuse with only one nerve visible: Note that acc. to Kn. S. duriuscula is prob. more frequent in Mallorca.

6-20-32 Saponaria Vaccaria L. Kn I 473, G 386, BMJCP 365, Coste I 186 = Gypsophila —— Sibth Bar 65, Bon 46 Fl
Sent by Mrs. Kennedy from Valldemosa (Valle de Son Brondo)

P 735
6-21-32 Phlomis Italica L (See 6-18-32) Fl. From Mrs. Kennedy "Prados Ponts" c. Valldemosa

P. 736
6-21-32 Buxus balearica Lamk (See 5-19-32) Infl. & fr. Mrs Kennedy from Fontanellas c. Valldemosa "20' or more tall & bushes thick & high on my land" Lvs to 35X14 mm. cfd with B. sempervirens
6-23-32 Galium —— See Note 6-25-32 Cult. Infantes

737
6-23-32 Solanum
Fl. (Same as 11-17-30) Son Rapiña very thick at one place on road at back of houses on west side of town. Prob an escape. Note: stalks of this year's growth sometimes with a few weak thorns. Lvs oblong, acute or obtuse at base & coarsely sinuate lobed. Pubescence on lvs & at. tawny [stem: roots creeping. style-rose or lavender, deflected, curving at end, and longer than stamens] Seen in various gardens.

738
6-23-32 ? Lotus Corniculatus L. var. tenuifolius L. Kn II 96 = L. tenuifolius Urv. Bar 130 = L. tenuis Kit Bon 81. Coste I 360 = L. tenuis Waldst & Kit BVH 121, All II 1391 = L. uliginosus Schk. Bryn. in torrente bet Quarry & Corners

v Son Rapiña. Plant with very few appressed hairy stipules v bs have narrow effect (broadest are 3/4 mm) but are more v lanceolate than linear v the lowest ones are almost enough to be v ovate. Effect not unlike ill Bot 3d II. Calyx teeth def shorter than tube. Fls not more than 10 mm by any measurement. Corolla yellow turning orange. Effect from 15 X 1½ mm. Many sts spreading in ground but sts not much branched. Whole effect more slender than expected for L. Cornuculatus. Umbels usually 3-4 fld. [April 1935 in light of memory of plant in Switzerland R.B.K. still uncertain about this]

739

6-23-32 Erythraea latifolia Sm Ku II 283, Bas 313, Bon 213 Coste III 537 = Centaurium tenuiflorum Hoffm & Link Bot 3d II 349 Fl with above. St 21-25 cm high with the 4 angles sharply but def. winged (Can't see that 3 are more strongly winged than the others as Bas). Bas & lvs close together but not in def rosette (as for E. Centaurium Pers) v lowest lvs usually shorter than upper ones (Coste) L 8-10 mm wide (lvs much wider than any lvs of E. pulchella 6-30 V 5-5-32), St. much branched above middle but infl not not flat-topped (Bot 3d II) Pedicels as short as to seem almost none. Corolla tube 9-10 mm high (somewhat exceeding tips of calyx); corolla lobes 8 x 8 mm long v open fl 7 mm across (Quatercentenary) Coste, Fl 6 36 v notes 7-10-31 stridors not seem probably E. Centaurium = C. umbellatum Hill)

6-23-32 Plantago minor Retz (See 5-13-32) Torrente bet Quarry & corners v Son Rapiña. Rest fibrous. Fl with P. 6-25-32 6-28-32

6-23-32 Tribulus terrestris L. Knuth I 88, Bar 93, Bon 62 Crete I 267 Fl v fr. Cathedral Quarry. Just in front of the cave that seems occupied

6-23-32 Knonis antiquorum L (See 5-21-32) Fl. Common in fields just south of Cathedral Quarry. Not carefully studied but seem the one hitherto seen frequently before. Stems not markedly zig-zag but with many slightly upward arched branches. Fls 10-13 mm across all

P 740

6-23-32 Agrostis alba L. Knuth I 394, Bar 492, Bon 355, A 132, Coste III 571, inc in A. palustris Hudo B & H 536 Fl Prob along torrents Cathedral Quarry - San Rapina. But note that fls only 2 mm wide at base v (when studied 7-1-32) rolled to a very slender tip - might make one suppose A. muelleriana Lamb & A. filifolia Ina (Crete). Inflorescence like all A. alba.

6-25-32 Aspidium rigidum Sw. forma pallidum Clerk (See 5-19-32) Sp. Krek-Blanc. Common on rocks near Sp.

P 741

6-25-32 ? Galium firmum Tausch forma laevia Knoche Knuth I 419 = G. Crespianum Rode Bar 220 Fl v young fr. Krek Blanc. Conspicuous tufts in the rocks with glistening stems and large panicle of dull yellow flowers which (at least sometimes) have a mealy fragrance. Stems very smooth v glabrous, slightly enlarged just above whorl of lvs. Lvs stiffish. The

very lowest sometimes slightly roughened on the edges with ~~rapps~~ upward pointing prickles; the veins entirely smooth. Lvs in whorls of 8-10 on st, about 6 in the infl. Lvs 2-3 cm long by 1.5-2.5 mm wide, longer than internodes. Corolla 4 mm in a side, lobes sometimes acute & sometimes with a fine linear tip (surely would be called "apiculate" but not in Lx-Fl) Lvs of whorls three) a plant thought to be G. Mollugo L var cinereum Briq. The mid-rib hardly less conspicuous below than in G. M- but fills a less proportion of the width of lf.

>742 6-25-32 H. M. Moran C

P 743

6-25-32 Galium parisiense L forma anglicum Ku II 422 = G. parisiense L. Bas 222. # 948. Coste II 245 = G. anglicum Huds Bor 142, Bolt 222 Fl Lfs. Loch-Blan on old tracks towards Escorca. 12 in high. Very much lilac-ill (Coste). Young fr "finement elarginé" only without the bristles of forme microspermum # 4-17-320 v 5-23-32. Identical but (?) through inexperience.

6-25-32 Rumex conglomeratus Murr (See 6-16-32 Fl. Loch Blan. Inv dif. spec. tubercles are white; green, red.

6-10-32

Galium (note to be Considered with 6-25-32)

G. Galium col. by Mrs K. June 23, 1932 at Sa Coma Valldemosa (x) was named by Kew "G. Poiretianum Ball which Knuche cites as a synonym of G. parisiense but it is really distinct" [This matter of the synonym is obviously a slip of the pen See Knuth II 419]. Now Mrs. K when sending the June 23 spec thought it the same as her May 19 '32 spec from Teix which RB.K compared freely with her #711 & #712 of June 10 '32 Teix and thought the same. [Superficial Comparison of dried specimens of May 9 & 711 & 712 Teix when writing this note 9-18-32 makes them still seem probably the same]

All this strongly suggests that #711 & 712 may be G. Poiretianum Ball but may not apply to #742 which very likely is not the same.

6-25-32 Anagallis tenella L. Kn II 268, Bar 305, Bond 10, BVH 304, Cortett 337 Early fl. Brook just above Loch Blan. Largest lvs 4 mm diam; all lvs with a broken line of dark color just inside edge beneath. Similar lines on edge of calyx lobes & dashes on st. Corolla 8 mm high. Back of filaments so covered with necklace-shaped hairs that center of fl. looks fringed. A charming plant!

P 744
6-25-32 Hacheogermanica L. (See 6-12-32) Fl v young fr. With above. Cf with pressed spec of (6-12-32) Seems the same Note: plants growing near together vary in amount of wht hair on calyx (gray to green) Also. Note also that in all plants the 2 vertical are distinct and often the lower one a distant 4-9 cm (as here BVH. but Corte contra). Specimens not well enough to show basal lvs but all lvs below infl 6-10 cm long. Filaments spotted purple towards base, the 2 posterior filaments very pubescent below, the 2 anterior ones only slightly pubescent. Corolla almost white with a few purple dashes.

P 745
6-25-32 Erodium Chamaedryoides L'Herit. (See 6-6-32) Fl v fr. Loch Blan where the 2 entrance paths meet at foot of reservoir. Awns of fr. 1 cm long. In one place plant growing with Libertia & like it

covered with cuscuta.

P 746

6-25-32 Linaria aequitriloba Dub (See 5-28-32) Fl. Gorelo Blanc in streambed between reservoirs

P 747

6-25-32 Teucrium Polium L. var majoricum (See 5-29-32) Bud. Gorelo Blanc Cliffs along upper entrance path. This is almost surely the forme cuticulare with long calyx Ku II 317, var Calycinum Willk Bal 376. St. grey white with short pub. & branched hairs. Lvs gray green with similar pub. Lvs elongated 25-30 mm overall, narrowly oblanceolate, the broadest 5 mm near tip. Edges entire or the slightest bit crenate at tip, revolute but not at all hiding the veiny underside. Inf. Calyx tube 4 mm, teeth 1 mm. Inf loose with long bracts. Inf before flowers has a purplish tinge to otherwise. The one fl. open is deep rose-purple. (Bar. says white)

P 748

6-25-32 Silene mollissima Pers (See 6-3-32) Fl. Dress above. Petals white, tinged slightly green beneath. Claws not exserted (Bar & Coste say they are). Calyx 2 cm long; petals exserted about 1 cm further. Stamens long exserted. Plant very like ill Coste.

6-25-32 Knautia integrifolia L. var amplexicaulis Borbas. Kn II #38 = K. hybrida Coult. Bas 579, Bon 147. Coste II. 375 Fl v unripe fr. Valley just above Kordh Blanc. Lvs never lyrate & now deeply pinnatifid: the lower ones rather coarsely crenate-toothed, the upper entire. Calicule pinched just under its short segs. to the limb, showing only at that point the ridge down each (of the 2) faces which would make it "subtetragone". Calyx limb herbaceous, thickened just at many (now purple) hairs. The stiff downward arched hairs at base (as at (See Bor) are very definite Fl. with straight hairs (1 to 2 mm) of various lengths, some tipped with dark gland and also with very short down-arched hairs. St. branched from near base. ® Correction: out of about 40 specimens one only had the 3 pairs of lower lvs divided simple like ill Coste with 2 pair of small segs below the terminal seg.

6-25-32 Veronica Anagallis L. (See 5-13-32) Fl v unripe fr. Brook just above Kordh Blanc. Seeds tiny (.6 mm) & very many, oval, flattened on one side. Pedicels sometimes with very few gland-tipped hairs. Style 3 mm as (5-13-32)

6-25-32 Helosciadium nodiflorum Koch. Kn II 238 Bar 209, Bon 133 Coste II 213 = Apium — Reichb B & H 188 Fl v very young fr. With above (Acc. to memory this is plant of 11-5 and 12-5-30 and of 1-20-31). Umbels with usually 12-15 rays.

P 749

6-25-32 Rosa

Fl vadv. fr. with above - very like P.J 6-10-32, in general habit & rosettiarms lvs v sweet smelling glands but differs in that peduncles have the same gland-tipped bristles as the backs of the 3 outside sepals with a few glands, styles not globrous (in fl the hairs hardly show but later cannot be overlooked), petals a dk tho light pink.

6-25-32 Scrophularia aquatica L. var auriculata (See 8-8-32) Early fl with above. Corolla green v purple Note filaments & back of staminode glandular

6-25-32 Ballota nigra L Ku II 337, BvH 370, G 701, Coste III 122 = B. foetida Lam Bar 368, Bon 254 Fl. Greek Blan.

P 750

6-25-32 Phlomis italica L. (See 6-18-32) Fl Greek Blan

6-25-32 Lactuca tenerrima Pour Ku II 388, Bar 285, Bon 187, Coste II 433 Fl v Fr. Greek Blan. General shape of the finely cut lvs very sug. of Sonchus tenerrima in its most delicate forms. Sts below v rachis of flower lvs. Comp. long white hairy. Bracts at base of involucre def connate into white edges

6-25-32 edges. Calyx v deeply cleft ½ mm long (Coste says 8 mm each. Fls. (as remembered) a pale lilac

6-25-32 Prunella vulgaris L. ℞ 698 = Brunella — L. Ku II 338, Bon 255, B & H 365 Coste III 131 (see) = Balfa Pall Bar 370 Fl. Brook just at town Rock Blan. Fls blue. Lvs entire. Tooth & filaments slightly arched forward

6-25-32 Epilobium parviflorum Schreb. Ku II 221, Bar 170, Bon 104, B & H 156, Coste II 97 Fl. with stone. Lvs opp. except on upper ¼ of st and all sessile except on lower ¼-⅓ of st. Pet. these petals so short as to be hardly discernable Wide at ¼ of 1 mm.

6-25-32 Samolus Valerandi L. Ku II 268, Bar 306, Bon 210, B & H 204, ℞ 645. Coste II 539 Fl v adv fr. with abvz.

p 751

6-25-32 Micromeria beyrichii Benth var Rodriguezii forma filiformis Ku II 348 = M. filiformis Benth Bar 366 Coste III 92, Willk II 69 Tab CXXIX Fl. Rock Blan.

6-25-32 Acer italum Lantz Ku I 169 = A. opalifolium Vill. Bar 90, Bon 61, Coste I 363 Fr. Rock Blan. Lvs as ill (Coste) Bare of samara thick v veiny. Note!

Kn. calls this forma hispanicum so it must differ somewhat from deae. Bss v Coste. But RBA does not know in what respect.

P 752

6-25-32 Hypericum Cambessedesii Cosa (See 6-6-32) Adv. bud & fl/fr. Hoch Blau. [No flowers at Hoch Blau 6-28-32] No black on petals or stamens.

6-25-32 Ononis antiquorum L. (See 5-21-32) Fl. Fields above Hoch Blau [Seen also 6-28-32 very commonly. This is the neighborhood of Aumellus quoted by Bss 592] Cf Willk (6-28-32). Seems the same except that Salajo has rather longer fls (15 mm or so all) and thorns more often in 2's.

6-25-32 Carlina infesta H. Pyr. Kn II 227, Bss 193, Bw 125, = T. helvetica Rchb, Coste II 164, = Cancalis arvensis Huds B v H 207. Fl v fr. Field Rd Inca v Santa Maria. Umbels 6-8 rayed; involucre none. Plant spotted at base 3 ft high. (were col. on top of fence).

6-25-32 Cynara Cardunculus L. Kn II 419, Bss 264, Bw 174 D. 11 CP 793 Cinara — L. Coste II 364 Fl v fr. Near above. Fls a hard, bright color neither purple nor blue but nearer blue.

6-25-32 Agrostis alba L. var. verticillata (See 5-17-32) Fl Field just above Knoch Blan.

6-25-32 Holcus lanatus L. Crete Ku I 303, Bar 498, Bon 360, BvH 542, G 137, Crete III 600 = Notholcus — Nash BMJCP 115. Fl. Field just above Knoch Blan.

6-25-32 Melica Bauhinii All (See 6-6-32) Fl. Knoch Blan.

6-25-32 Scirpus Holoschoenus L. Ku I 341, Bar 476, Bon 325, BvH 501, Crete III 473 Fl Knoch Blan v brook just above. Plants ranging from (a) 8 to 30 cm, rays to 3 in & some branched to (b) 80 cm high with 1 sessile head 3 mm diam.

P 753

6-25-32 ? Equisetum arvense L. (Ku), Bar 592, Bon 383, BvH 571, G 52, Crete III 712. Sterile st. by brook just above Knoch Blan with Aneagallis tenella. Branches 4 angled, solid v cross section is slight. Questioned only because fertile st. not seen v because not recorded by Knoche.

P A 754

6-25-32 ? Equisetum ramosissimum Desf. Ku I 366 See Crete III 714, and See E. ramosum Sel Bar 593, Bon 383. Sp. habitat. Sts. slender, to 30 cm, simple

except for branches within 3 cm of base. This is strongly suggestive of E. Camposianum Pour (= E. ramosissimum DC) Coste III 714. Sheaths close fitting except towards top of st. where a little flaring, 4 mm long without the filiform tops (1 mm long) which are usually broken off. Central cavity small. Heads oblong 8-12 mm × 3-4 mm, apiculate. Sheaths teeth with white edges & touches dull black on tops in sinuses.

P 755?

6-25-32 Equisetum ramosissimum Desf Kn I 226 efe sec above. Here st. only found with above. Stem less slender than A, 70 cm high. No branches at base but a few whorls of 2-3 short branches about the middle of the st. Sheaths similar to A in fitting, 10 mm long without the filiform tops (2½ mm long) often broken off. Teeth black with white edges. Central cavity large exactly like ill of E. ramosissimum Desf (Coste). Head oblong 10 × 5 mm, apiculate. 2 sec here 10-28-30 & 12-5-30 - which is more like this than like A.

6-25-32 Phalaris bulbosa L. forma coerulescens Kn I 290 = P. bulbosa Car. Bar 485 = P. coerulescens Desf Bon 349, Coste III 685. FR. Frequent in fields from upper end of Kork Blan to the first gate. Cf dentata forma nodosa (6-25-32 at work with Anagallis) & also with specimen of (6-28-32) and find just the differences

6-25-32 differences noted by Cota, esp the much broader, def. dentate wing, the glabrous lemma & very small scales.

756

6-25-32 Gymnogramma leptophylla Desv. (See 5-9-32) Sp. Greek Blan. On rocks as one clambers down into torrents from east end of bridge

756A (spec returned to Mus K. 9-11-32)

6-26-32 Allium sphaerocephalum L. Kn I 374, Bar. Bm 298; Br H 488, Cota III 334 Fl. From Mrs Kennedy from valldemosa. Bulb about 1 cm diam; bulblets on st. just above bulb. St. 19 in high, lfy to middle (blades sheath below & then 2 lvs) Lvs keeled & as far as can be seen when partly dry are "demi-cylindriques & canaliculées" (Cota). Lvs 3 mm (or less) wide, the fine tip & upper most reaching almost to top of st. St. round, dark green, with smooth elegant look; thru microscope (20x) is covered with minute white dots. Lvs too dry to show original color. Head globular 2½ cm diam. Perianth 5 mm high, the inner segs. slightly longer than the outer & flattened acute tip. Outer segs a strong purple, with greenish, slightly roughened keel. Inner segs. pale on edges & smooth on the greenish stripe down center. Stamens well exserted. Inner stamens have filaments 4 mm

long to point of division, the middle (anther-bearing) tooth another 4 mm (or slightly less), the 2 lateral teeth slightly longer than the middle one but hardly, if at all, over topping the purple anthers. Pedicels at least as long as fl & slightly thickening towards top (Coste). Central fl now open, the outer ones still in bud, whitish with short pedicels. Spathe persistant, short (perhaps 1 cm), now split into about 3 equal triangular parts (Br & Coste say 2 valves). Stem slender & fistulose (not cut to see). Valves of ovary somewhat produced and with 2 round lobes at top. Ovules 2 in each cell, 1 mm (or 1½ mm) long; seem large. Style rises from base of ovary & is shorter than stamens. Odor odor strong.

6-28-32 Vicia tetraspema Moench var pubescens Bon & Defay (See 5-5-32) Fl. Stock Blanc along upper entrance path. Pods pubescent. Seeds 4, globular, 2-3½ mm diam, dark olive-drab with purple or black spots.

6-28-32 Linum angustifolium Huds. (See 4-16-32) Fl. Pet. Field Stock Blanc - Admellut x. Capsule 5-7 mm; seeds 3+ mm long, without beak. [See L. usitatissimum 4-16-32

#6-28-32 and 8-2-33 when Capsules 7 mm diam & seeds 5 mm long shaped as ill. Coste.

6-28-32 Linaria triphylla Mill. Kn II 378, Bss 344, Bon 238, Coste III 30 Fl. Cuba in ploughed ground east of horse. Tiny plants 6 cm high with only 1 or 2 fls. Lvs broadly ovate, obtuse, to 6 mm. long, nerves hardly showing but prod 3. Lvs usually opp (as remembered I have collected with 1 whorl of 3). Lvs slightly roughened (20x) on edges. Fl sessile. V as remembered in the larger plants seen frequently all spring, 25 mm tip to tip. Corolla creamy white with palate of bright yellow & spur purplish. Palate with 4 lines, basal two 2 median ones bright yellow, the 2 outer white except at tip of palate. Lines show no sign of being winged.

6-28-32 Linaria commutata Bernh (see 5-13-32) Fl by brook at upper entrance of Gorch Blan. St. de Jonidis radicantoil (Coste)

6-28-32 Centaurea salmantica L. Kn II 499 = Microlonchus salmanticus DC. Bss 369, Bon 161, Coste II 397 Fl V unique fr. Flade Cuba & further on toward Barranco de Soller.

P 757

6-28-32 Cephalaria rigida Schrad. ssp. balearica (Willk. Suppl. I 18 tab. XI) Knoche Kn II 436 = C. balearica Cav. Bar. 232. Very early bud & very old fr. Barranco de Adler. Seen also in bud on cliff by upper entrance path to Horde Blanc. [Seen in fl. col. 6-3-32 Puig Kero-Vega Gorge.]

6-28-32 Chronis Natrix L. forma crispa Kn II 65 = O. crispa Bar. 109 Fl. Western part of Pla de Cula. Common. Easily distinguished from the O. Natrix found Pato-Pz etc. by the broad (almost orbicular) lfts with crisped (or curly) edges. Note: diffs in calyx Bar mentions that spines not "lampiño" atop; peduncles have a stubby awn of about 2 mm; and pedicels of upper fls almost exactly equal to the almost hvs & hvs subtending upper fls 1-foliate. The "foil ordinaires" of Knoche are found only on calyx. Lobes of lfts is like that of some curly-leaf geranium of the garden.

P 758

6-28-32 Silene mollissima Pers. (See 6-8-82) Fl. Barranco de Adler.

6-28-32 Phalaris bulbosa L. forma nodosa Kn I 290, (Bar), = P. nodosa L. Bm 34, Coste III 535 Fl. Brookside upper end of Horde Blanc. 7 ft high. Ruff 11½ cm x 2 cm at base

6-28-32 base. Wing & glumes very narrow, and only minutely denticulate (20x), lemmas pubescent & one scale fully 1/3 as long as lemma. This seems to make ident sure - Hitchcock & Bartels lead one to expect forma caerulescens in this place. 1.5 to 1.6 mm wide (pedicels 2 mm long; spikelet 6 mm long & lemma more than 1/2 the length of glume.

P 759

6-28-32 Cyperus longus L. forma badius Kn I 3x0 = C. badius Desf Bar 4 74, Bor 324, Coste III 463 Fl. Brook at upper end of Knoch Blanc. Rootstock thick, woody, creeping as ill (Coste) but no odor (Coste) to be noticed. Sts 40-60 cm high & finely, longer than leaves which reach to above the middle (Barsanyi st. shorter than leaves). Bracts usually 4, 3 whorled & short & inconspicuous, the other 1 conspicuous & usually much longer than infl. (1 being longer than the other 2 & 20 cm or more). Leaves & bracts deep rough on edges & keel from bottom to tip. Infl & serrid rays 3 whorled 1-3 are elongated. 2-4 cm & the rest so short that these spikes look almost sessile. Spikelets 1 cm long. Scales obtuse, the bright green keel with nerves (perhaps 3) & the rest of scale thin & shining chestnut (almost red).

6-28-32 Epilobium hirsutum L. Kn II 231, Bar 170, Bor 10 4, B & H 156, A 596, BNJ CP 548, Coste II 77 Fl. In brook at upper end of Knoch Blanc.

P 760

6-28-32 ? Viburnum Tinus L. Kuntze #430, Bar. 2017, Bur. 137, B.M. 1, C.P. 719, Coste #231 Evergr. fr. Torch Blan. Several bushes seen (Lvs ♂) one col 6-25-32). Young stems ridged & pubescent with slightly tawny hairs. Lvs of young shoots much larger than expected to 6 × 2½ in. lvs on fl.-stems smaller 2½ × 1½ in. Very young lvs show the dark dots & the pubescence sometimes stellate (5-7-31). Inf as expected (Coste). Fr now 1 cm. overall, purple, calyx teeth prominent. The reason for (?) is that fr in cross section shows no neatly formed nutlets as expected, but inside the thin, one-celled skin a green, fleshy body with convolutions rather like meat & nut, this body attached to the skin seemingly by a vertical line. ♂ plant is V. The explanation must be that the bony exterior of nutlet is now soft enough to cut easily & is adherent to the skin (no pulp between) & that this convoluted body is made up of cotyledons.

6-28-32 ? Arabis verna R. Br. (See 4-18-32) Torch Blan. No fl. afs. The flowering parts seem to have reverted to something like lvs, but the normal lvs in shape & branched pubescence make this ident. probable.

P 761

6-28-32 Bupleurum fruticescens L. var Barceloi Knoche Kn II 232 = B. Barceloi Cors. Bar 205. Bed. Upper end of Rock Blen and Barranco de Diller. Flowering stage. 1 ft high, slender, lfs only at base.

6-28-32 ? Bifora testiculata DC. Kn II 228, Bar 196, Cata II 165. pro sp = B. discoidea Hoffm Bar 195. Fr. Field at Cuba. A stunted plant 2 cm high with 1 fr. only & no sign of there ever having been any more fruit. No question of genus & shape of seed of fr with ill (Cata) indicate this species. Crushed lvs have rank (not fetid) odor.

6-28-32 Daucus platycarpos Lerp Kunth (See 4-18-32) Fields just above Rock Blen. Fr about 13 mm high & purple because of color of bristles. [Tiny plants of them were in flat Cuba.]

6-28-32 Bupleurum protractum Link & Hoffm (See 6-13-32) Fl. Cuba. Plant 2½ cm high

6-28-32 Santolina Chamaecyparissus L. (See 6-4-32) Fl. Western end of Pla de Cuba. Not seen frequently [Plant now in fl in Palma gardens.]

6-28-32 Ranunculus cardonsi Gautier (See 6-6-32) F=bfr. Gorch Blanc towards Soller. Almost surely at Ranunculetx. Same Chas. as 6-6-32 but seeds now more ado 4x3 mm & less flat. Flo about 1 cm wide but as sepals have all fallen don't know their relative length to petals. Cf. with R. paniflorus & R. bulbosus.

6-28-32 Pulicaria odora Reichb (See 6-5-32) Fr. Bet divide at west end of Pla de Cuba & the house "à l'Office" at the upper end of Barranco de Soller.

6-28-32 Anagyris foetida L. Kn II 56, Bar 103, Bon 69, Coste I 390 Rumpe fr. Barranco de Soller. Pods perf. full size, 10 cm long, sometimes elliptical as ill (Coste) with only 1 seed developed; sometimes with more (to 8) seeds & hence more nearly linear. Seeds 2 cm x 1.5 cm x thick, almost oval not "en rein" (Coste)

6-28-32 Genista cinerea DC (See 4-18-32) Rumpe fr. Perf Barranco de Soller or abor. Pods 20 x 5 mm with seeds mature def. bumps (Coste says "15-17 mm long, a faine boisselée")

P 962

6-28-32 Crepis Triasii Willk. (See 5-23-32) Fr. Gorch Blanc.

763

6-28-32 ??? Scirpinus vermiculata L. Bon 90, Coste 402 Fl vfr. Cuba in field east of house. Tiny plants not more than 4 cm overall. Differ from any seen before in that fr is often entirely without tubercles; sometimes with a few low, blunt tubercles on back. Fr varies in shape from Bon's (p 9 ill.) S. sulcata L. to more nearly like Bon's ill. of S. subvillosa [Note that up to date R.B.K. has never seen any S. with fr. was spongy on the inside tho' S. subvillosa is said to be most common in Mallorca] Culms 4 to 5 mm long, non attenuées aux deux bouts "Cote"

6-29-32 Juncus glaucus Ehr. Kn I 338, (Ber), Bon 319, B M H 487, Coste III 449 Fr. From Mrs. Kennedy from Valldemosa.

764

6-30-32 Potentilla caulescens L. var genuina Th. Wolf (See 5-15-32) Early fl. From Mrs. Kennedy from Puig Major cliffs.

7-4-32 Pancratium maritimum L. Kn I 388, Bar 452, Bon 307, B M & C P 184, Coste III 383 Fl. From Mrs. Kennedy from Campo de Mar near Andraitx.

7-4-32 ? Tecoma stans Juss. B. M. & C. P. 691 Fl. Cult. in garden Calle Santa Rita. Very like tree (as remembered) in Bermuda. 4 to 5 (on bus near infl.) Connective

Anthers cella perlonged in def tip but not "enlarged foliaceous". Base of filaments tuberular. Corolla veined orange inside and pubescent on the 2 folds which run to sinuses of lower lip. Almost surely T. but possibly another species not given in B.M. or C.P. Many off with that of Tecomaria capensis to be sure of family. Owner is quite sure "this is the only tree in Mallorca"

4-5-32 Lavatera punctata All. Kit. I 179; Bar 78; Bau 56; Cat I 238 Fl v young fr. Bet ~~Binaria x Bonaba~~ Binaria x Bonaba. Ident. easy from shape of upper lvs of calicule. St. soft to touch from a dirty pubescence lvs. softly pub. - stamy beneath but not stamy on upper surface.

7-5-32 Ligustrum
Fl. Tree at Hotel Ferro-Carril Soller. (See 3-19-30). Young branches warty. Lvs as dese 3-19-30 but often somewhat tapered at base and always rather ~~cat~~ cartilaginous on edges. Flrs ~~sessile~~, stamens exserted, Corolla tube def shorter than limb. Fl short pedicelled to (seemingly) sessile. All pistoglabrous. See B.M. & C.P. 593-4 the choice seems to lie bet L. lucidum Ait & L. japonicum Thunb. Tree was surely 10 ft high per 8 higher.

764A
7-5-32 Micromeria Rodriguezii Freyn.
Col. by Mrs. Kennedy in Bellver and identified for her by Kew.

7-9-32 Chondrilla juncea L. Ku II 530; Bar 283, Bon 186. G 864, Coste II 437 Fl. & fr. Bellver on wall around castle.

7-11-32 Reseda lutea L. Ku II 38; Bar 55, Bon 38; B & H 53, G 439, Coste I 161 Fl. Porto-Pi. Frequent in dense patches & masses between sea & quarries west of fort. This is evidently one of the old fr-stalls found 1-22-31 near San Rafaina.

7-11-32 Carlina corymbosa L. Ku II 484, Bar 273, Bon 182, Coste II 367 Fl. Porto-Pi. Col. frequently later & sometimes, at least, the interior bracts & involucre tinged & purplish or entirely towards base. See 12-10-30 "B"

7-11-32 Euphorbia Chamaesyce L. Ku II 147, Bar 411, Bon 278 Coste III 231 Fl. & fr. Porto-Pi Seen at one point only, on rocks by harbor path near lighthouse. St. pinkish & with a few spreading hairs. Lvs to 6 x 5 mm but often much smaller; usually red on edges. Glands tiny & with several tiny rounded teeth (not three lobed or toothed Coste & Bar) Capsule 2 mm high, sharply angled. Seeds 1.3 mm, reticulate.

7-11-32 Portulaca oleracea L. Ku I 448, Bar 178, Bon 107, G 389, Coste II 95. Fl. & fr. Porto-Pi

7-11-32 Erythraea spicata Pers. Ku II 253, Bar 312,

Bon 2/3, Coste II 552 Fl v rare fr. Porto-Pi. On rocks below fort v on bluff to west of fort. Sts to 12 in high v much branched on 3 in high v ample.

765

7-11-32 ?? Erythraea latifolia Sm. (See 6-23-32) Fl Porto-Pi. On bluff to west of fort. Sts 3 in high into st fl cymes branches v compact cymes making in fl in some cases flat-topped. Fls not large enough for E. Centaurium v infl not open enough for E. pulchella.

766

7-11-32 ? Erythraea pulchella Fries (See 4-30-32) Porto Pi.

767

7-11-32 Pegaeum Hormola L. (See 5-12-32) Europe fr. Porto-Pi

7-12-32 Majorana hortensis Moench BMQ CP 650 = Origanum Majorana L. Bar 357 Fl v fr. Cult. Mrs Nisbet's garden.

7-12-32 Petroselinum hortense Hoffm. BMQ CP. 564 & 565 = P. sativum Hoffm. Bar 209, Bon 133, Coste II 316 = Carum Petroselinum Benth B & H 890 Fr. Cult. Mrs. Nisbet's garden.

7-14-32 Linaria spuria Mill Kn II 375, Bar 339, Bon 232 B+H 341, G 920, Costa III 17 Fl. Field above house at divide on Palma-Soller Rd & plentiful as seen lower down towards Soller. Plant very like L. cangera Def but many of lower leaves opp. and all leaves entire. But no confusion possible in fl. as this has calyx lobes broad based (almost quite heart-shaped). Corolla with upper lip dark brown-purple on lobes; lower lip def. yellow with no spots on palate but sometimes the lobes touched with brown-purple. Filaments with few long hairs.

7-14-32 Festuca elatior L subsp. arundinacea Hack var genuina Hack Kn I 322 = F. genuina Lag Costa III 635 Syn F. arundinacea Schreb Bar 391 & F. interrupta Def. Bon 366. Fl & fr. North side of Coll de Soller. Branches erect & appressed against axis as panicle very narrow & spike like. Maturing grain purplish.

7-14-32 Trifolium fragiferum L. Kn II 83, Bar 127, Bon 78, B+H 118, Costa I 341 Fl & fr. N. side of Coll de Soller.

7-14-32 Cirsium arvense Scop. Kn II 492, Bar 266

Bor 175, G 858, Coste II 374 = Cardamine arvensis Rth
B&H 261 Fl. Coll de Soller.

7-14-32 Allium paniculatum L var. pallens Bor
G. Kn I 374 = A. pallens L. Bar 439 = A. paniculatum
L. Bor 299, Coste III 334 Bad Coll de Soller in rocky glade
above house at divide. Print 9 one 9 the 2 valves 9 spathe
sometimes 9 cm long. Pendent & smooth on back.

768
7-14-32 Hippocrepis balearica Wulf. (See 3-1-32) Fr. Coll de
Soller. (cliffs to westward)

7-14-32 Epilobium tetragonum L. (See 6-16-32) Fl
v. minipe fr. Coll de Soller frequent along roadside.

7-14-32 Melica ciliata L. (See 6-16-32) Fr. North side 9 Coll
de Soller.

= F. Myuros L.
7-14-32 Festuca Myurus L. Kn I 321, B&H 554 All III 456, G 161
= F. pseudo-myuros Soy-Will Bor 365 = Vulpia myuros
Gm Bar 506 = V. myuros Gmel Coste III 630. Fr. North side 9
Coll de Soller - Soller. Duff 19 cm long, 1st glume 1.5 mm;
2nd glume 4.5 mm (H), def shorter than lowest lemma.
Lemma stout 4 mm with aroun 3-5 + nerves & long
ciliates

7-14-32 ciliate with a few longish hairs near tip. Tip entire. Awns very scabrous. Glumes smooth

7-14-32 ? Juncus articulatus L. var acutiflorus Kn. I 362 = J. silvaticus Reh. Bar 4 71, Bor 321, Bo H. 2d II 368; Coste III 452 Fl. Fr. Inlitel at foot of high wall north side of Collde Soller. Perianth segs all def acute, the inner equal to or longer than the ovate. Anthers 1 mm (2 times as long as filaments)

7-14-32 Galium parisiense L. forme anglicum (See 6-25-32) Fr. Collde Soller.

768

7-14-32 ?? Erythraea latifolia Sm (See 6-28-32) Fl. Coll de Soller with Linaria spuria ✿ r'd down to Soller.

769 (Spec given to Miss K 9-11-32)

7-26-32 Laserpitium gallicum C. Bauh (See 6-4-32) Fr. Puig Mayor Cl. S. on path just above 2nd spring. Fr now ripe with undulate wings well developed on the exterior mericarp but the interior mericarp only slightly (if at all) winged. The marginal ribs hardly broader than the dorsal ones. Ultimate segments 1 or 2 mm wide.

770

7-20-32 Pimpinella Tragium Vill var balearica Knoche Kn II 239; [redacted] III Tab IX 3. See P. Tragium Vill Bar 2107, Bon 132, Coste II 307 Fl. with above. Exactly as ill Kn.

771

7-20-32 Asplenium Ruta-muraria L. (See 6-3-32) Sobr. Puig Mayor Cliff above 2nd spring Seen only in one place - a crack in rocks a bit to the right of place where path joins cliff. Note: Fronds only 1-pinnate (as remembered this has been true of all specimens in Mallorca) & segments irregularly but def. dentate above middle.

7-20-32 Onopordon illyricum L. Kn II 494, Bar 263, Bon 174, Coste III 363 Fl. near above. Seen also 6-10-32 on Teix and 6-28-32 Cuba as well as 5-18-32 near Alcudia Rebasa.

7-20-32 Smilax aspera L. Kn I 383, Bar 443, Bon 362, Coste III 306 Fl ♂. With above. This is "forma balearica" Fls in bud are def. red. & when open are more brownish purple than green.

7-20-32 Silene Cucubalus Wib Kn I 463, Bl #65 = S. inflata Sm. Bar 56, Bon 43, Coste I 172 = S. latifolia

7-20-32 S. latifolia Britten v Rendle & 386. Fl. with above. Plants 4 in high, the 3 inflated calices ground size looking much out of proportion. Lvs thick, very glaucous, gray-green and veiny on upper surface. Corolla pinkish turning ebil reddish as it fades. Calyx tinged pinkish purplish.

772.
7-20-32 Teucrium Polium L var majoricum (See 5-28-32) Fl. Puig Mayor Cliffs on path above 3rd spring. Same as 6-25-32 with long calyx & entire los. Fls deep purple.

773
7-20-32 Teucrium lanifolium Boiss Kuk II 326, Bar 372 Fl. Puig Mayor Frequent at upper spring

774
720-32 Teucrium marum L. forme subspinosum Kuk 325 = T. subspinosum Pour. Bar 374, Kuk II Tab XLIV Fl Puig Mayor.

775
7-20-32 Micromeria biflora Benth var Rodriguezii forma filiformis (See 6-28-32) Fl. Near above

776
7-20-32 Cephalaria rigida Schrad var balearica Kuntze (See 6-28-32) Bud. Cliffs on path above 2nd spring Puig Mayor. Frequent.

7-20-32 Euphorbia pithyusa L. Ku II 149, Bar 414, Bon 279, Cat III 239 Fl. Ap. Rd below Bonaba.
R. The form commonly seen with broad almost linear but slightly wider petators, middle. not 3-4 mm wide, lenticulate.
B. Seem the same except that bracts are 10 mm apart (perhaps could be called oblong) As remembered annular broad leaf plant found 5-9-32 on rd beyond Bonaba Blanc.

777
7-20-32 ? Galium firmum Tausch. forma laevis Knuth (See 6-25-32) Fl. Cliffs on path above 2nd spring on Puig Mayor. Seems same as (6-25-32)

7-26-32 Euphorbia platyphylla L. subsp. pubescens Ku II 148. Syn E. platyphylla L. Bar 412, Bon 348, Cat III 333 E. platyphylla L. Bon 280, Bolt 466. Fl. Ap. In bed Jaheam above & below bridge on Establiments - Puig pugnent Fl. Same as 5-13-32 and prob same as 11-5-30. Sts to 3 ft high. Sts & br ascend 5-13-32. Root would be fr annual. Pubescence of longish hairs obvious in infl. Glands pale yellow-green. Capsules 3 mm long, shallowly furrowed, & densely covered with elongated tubercles, Seeds brown, smooth 2+ mm long with flattened caruncle. R. B. 1

7-26-32 Cannot tell if "subappubescens" ace to the means E. pubescens ~~Deaf Burn 3 Vahl Enum~~ Valil Conte III 234 (See E. pubescens Deaf Bar 413, Bon 280) but plant agrees with desc. of this no better than with desc of E. platyphylla.

7-26-32 Chrozophora tinctoria Juss Kn III 145, Conte III 243 = Croton tinctorium L. Bar 420, Bon 288 Fl & fr. Fields along same stretch of river as above. Note ♂ fls have calyx 10-parted & styles 3 as desc. Conte (Bentham) Stipules awl-shaped, caducous. Can't find the "5 ercanus alternas" (Bar) in ♂ fls. Pubescence starry & fr with peltate scales as well as tubercles.

7-26-32 Oxalis corniculata L. Kunth 183, Bar 92, Bon 62, Rich 99, Q 534, Conte I 267. Fl & fr. Establishments. [See also SVK II 429] Identical same by all but G. Duelly, has G. reversed desc. of this & O. stricta L.

7-26-32 Leniaria Commutata Bernh (See 5-13-32) Fl & fr Establishments same spot as 5-13-32 ie. side road from no. end of town to Son . well beyond the little damp drainage place, and just beyond a very leaning St. John's Bread tree with stone heads of Cf with L. lanigera in flat same spot. L. commutata more delicate, sts flat on ground, pedicels

filiform v glabrous often longer than lvs (L. laniger has pedicels not filiform, not longer than lvs and always glandular-pubescent-like other parts of plant) L. commutata has a grayer less shaggy look than L. lanigera. L. commutata has corolla tinged yellow-cream inside while L. lanigera has dk. red as does 5-13-32 Both species have upper lvs entire. L. commutata has seeds def. tuberculate but seeds of L. lanigera not adv. enough to see.

7-26-32 Carlina lanata L. Ku II 484, Bar 273, Bon 182 Coste II 367 Fl. Establimentos. Plants vary from 2½ in v simple to 12 in v branched. Involucres sometimes bright rosy purple but often much duller v pales.

7-26-32 Typha angustata Bory v Chaubard Ku I 378 See T. angustifolia L. Bar 468, Bon 316, BVH 434, 468, Coste II 437 Typhaceae fr. Dr stream just above bridge on Establimentos - Puigpuigneut Rd. Dr stream Dr stream whether in light of Ku "near" the dense of G. angustifolia should be considered, tho they seem to fit. Upper lvs 8 mm wide, def. convex on back v somewhat concave on front. Spikes 12.5 cm long x 15 (or slightly less) mm thick, reddish brown. Stigmas linear (Coste, 4) and each ff subtended by a hair like tract (only a little shorter than stigmas), enlarged at tip (Coste, 4). Above ♀ spikes the axis for 2.5 cm is smooth v naked, then comes the base of ♂ spike now broken off. There remains too scattered

7-26-32 withered & halos characters but the apple had a small tract (same texture as lf) at base.

778

7-26-32 Ajuga Chamaepitys Schreb (see 5-13-32) Flo fr. Estab Landets - Son Grau rd through fields just beyond the little drainage depression

7-26-32 Pulicaria dysenterica Gaertn Ph Ku III 466, Bar 254, Coste II 315 - Inula — L. Bon 171, BH 243 Fl River bet. Estab. - Puig pugent bridge & quarry. Bushy with spreading branches, quite unlike form of P. odora Relb. Involucre at rough and upper surface by enlarged bases of bracts (see Bar)

779

7-30-32 Senecio Rodriguezii Willk Ku II 480, Bar 242. Fl & fr. Cala Ratjada Light House. Rare plant only found this light house keeper said they were to be found in April or point. Plant 12 cm high, decumbent. from base. Lvs not "trinerves" to eye. Achenes (perhaps because not properly maturing) not "tomentosa" Ligulae pale pumplish-pinkish, central florets somewhat darker. Involucre 5 mm high.

7-30-32 Anthemis Cotula L. (See 5-23-32) Fl & fr.
Rd Arta' - Capedepera bet Km 74-75. No question of identity. But has not ill-scented.

780

7-30-32 Taraxicum Scordium L. Km II 322, Bar 373, Bon 257, Bol 378, Coste III 136 Fl & fr. with labors, abundant in deep ditch on east f'd. Stolons not def. narrowed venture at least no possibility of T. scordioides Schrad (Coste III 187) arises. but stolons are very branchy and stolons are off so ident sure.

781

7-30-32 Pulicaria dysenterica Gaertn (See 7-26-32) with labors abundant.

782

7-30-32 Ranunculus sardous Crantz (See 6-6-32) Fl & fr. with labors. One plant only found. Plant very sparsely hairy. Petals almost twice as long as sepals

7-30-32 Panicum repens L. Km I 248, Bon 352, Bar Coste III 350 Fl. Beach at Cala Ratjada. Not exactly like ill (Bon) 1st lemma of flow empty. Stamens (anthers) bright orange V Stigmas bright jaune pale. 11-5-30 was modest the same species.

7-30-32? Convolvulus Soldanella L. Kuth 296, Bar 317 Bon 317, Boiss 317, Coste II 571 No fl or fr. Beach Cala Ratjada Liberdant. Exactly as desc & ill. Largest lf 28 mm broad

7-30-31 Ononis Viscaga Lam Kuth 238, Bar 209, Bon 183, Coste II 310 Fl & fr. Roadside in Montuiri region. Unmistakable.

783

7-30-32 Ridolfia segetum Moris Kuth 251, Bar 576, Coste II 245, See Anethum — L. Bon 246. Fl & fr. Fields east of Algaida. Many fields now yellow with this which is teasingly suggestive of Foeniculum vulgare in certain details but which has quite different habit & growth. Plants 8–18 in high & bushy with spreading or ascending branches (F. is much taller & less bushy) & more glaucous than F. is at flowering time. Primary & secondary segs. & lvs petioled (i.e. base for rather long distance at base) and upper sheaths bear real lvs (not merely an elongated sheath with a few short filiform appendages as in F.). Petals are definitely apiculate & curved inward exactly as in ill (Coste) (F. has tip of petal longer & entire–obtuse. Fr 2 mm high, slightly compressed laterally, more nearly cylindrical than in ill (Coste). Mericarps smooth, the 4 secondary ribs brown, filiform, showing plainly (20×) the 3 primary also filiform but slightly less

visible. Mericarp somewhat concave inside. Cross section not as in F. and still less as in Anethum graveolens L. (Coste III 178) the ribs not being at all salient.
Note: All (Coste) of Nice very inadequate.
Identity quieted only because of general friendly of this family & because nearby Barnéoud mention this profusion of Ridolfia in this region.
Note Kerner 245 says Anethum graveolens "Couvre les champs" at about this place. Can he be referring to this species?
Leaves & fr. volatile crushed have odor suggestive of F. but not so strongly licorice-like. (Coste II 151 "plant non aromatique" Bar 596 "Fruits aromatiques")
This recalls to mind a plant of Jard 2-3 in high found 6-28-82 in ploughland just north of Cuba with? Bifora testiculata not put in notes because thought to be a poor specimen of F. but may have been this.

7-30-82 Foeniculum vulgare Mill Ker III 247, Bar 198 = F. — Nill 616, BM CP 564, = F. — Gaert Bar 303 = F. officinale All. Coste II 195 = Anethum Foeniculum Bon 126 Fl v. rumpe fr. Cala Ratjada. Carefully identified.

7-30-82 Mentha aquatica L. Ker III 359, Bar 355, Bon 248 Bar H 359, G 910, Coste III 80 Fl with Anthemis Columnae. Heads

7-30-32 Heads ½ in thick, not nearly as large in effect as ill (Cote) nor as remembered in Switzerland always 1-2 glomerules at some distance below the terminal one. Cf Lunch M. rotundifolia L. collected at same [illegible]. Anal. lvs. have a trace of turpentine odor. Rudolph Intl. odor more "mint"-like but not strongly so.

7-30-32 Solanum Dulcamara L. Ku II 365, Bar 329, Bon 227, BvH 330, G 713, Cote II 613. No flr fr. but the characteristic lvs are unmistakable with the above.

= D. — all BvH 2d II 208

7-30-32? Daucus gummifer Lam Bar 191, Bon 124, BvH 209, Cote II 159. Plv adv. fr. Lighthouse Cala Rafjada Frequent in rocks by old buildings where we had lunch. Plant from 4-10 cm high. Lvs fleshy v almost glaucous the lower ones oblong. Fl. umbels 1½ in or less across, sometimes flat or convex, but more often nest-like. Bpines on fr are so confluent at base that they distrib looks more like a deeply dentate marginal wing. Spines sometimes not developed on the inside of fr. This is evidently included in D. Carota L subsp gargidium Ku II 254. See also D. dentatus Pers & D. reticulus Ten Bon 124, Cote II 159. Fls. 2 mm diam. No stamy tip on ends of spines. Costal fl sometimes purple. Bracts pinnatifid & involucels frequently entire, linear.

7-30-32 Scirpus maritimus L. forma compactus Kn I 341, —— var compactus Rchb Bar 477, ~~Coss~~ Dec S. —— L. Bon 326, Bol 502, Coste III 472 Young fr. Cala Rafpda. Rather at 1st on north of village or more likely at beach. Rare, more than 1 clump. Spikelets 10-14 mm. Scales (a. & s.) more or less lacerate at top. St sudden & bulbiferous at base, the thickish runner which extends from this smooth (no scales)

784

7-30-32 ? Silene sedoides ~~Poir~~ Poir Kn I 466, Bar 69, Bon 43, ~~Coste I 180~~ Coste I 150, S — Jacq Fr. Cala Rafpda bet. Light House & beach Prob at beach or in sheets of village near shore. Rosit Col. & apex very dry & withered, but undoubtedly a S. and very like it (Bon & Coste) Plant 3 in high with branches from base, making a bushy clump. Branches bear fls throughout most of their length at almost regular intervals of 5-8 mm so that fls seem to be alt. Pedicels slender 5 mm long. Calyx 4-6 mm high, its short obtuse teeth reaching to top of pencil capsule.

785

7-30-32? Statice lychnidifolia Gir Kn II 272, Bar 385, Coste III 165 Fl. Cala Rafpda Light House. 1st & 2nd bracteoles, brown, very obtuse & of almost equal length Calyx lobes very low & round, not splitting & becoming acute as fl dries, and nerve not reaching to top. Spikelet 4 mm long. Spikes 10 mm or less long

7-30-32 long and not as "densa" as Coste seems to suggest. Calyx tube def. pubescent. Lvs to 23 mm wide and petioles inconcat base. Stems perhaps slightly viscous

786

7-30-32 ? Statice duriuscula Bir Kuth 374, Bar 886, Bon 263, Coste III 163 Fl. Balearic. Plumbaceae Kuth 372-4 be S. confusa Kod or S. duriuscula Bir. Outstanding its def. spreading branches forming a broad panicle, flowered well to base and the var of the sto (See Bon & Coste) is provisionally ident. as S. duriuscula. Calyx, after flowering, splits into deep, sharp teeth.

787

8-3-32 Trifolium

Fl & fr. Cult in fields bet Palma and Arenal. Spec col. from field on rd bet Colden Palma & Arenal. Seems not to be in Bal or Coste. Best guess is T. alexandrinum L. BM & CP. 405. Many stems branched (plan a botanist) from sturdy tap root. Sts 6-18 in (perhaps more) high. Sts glabate below, but with appressed, upward pointing white hairs above. Lfts to pubescent, obl long (3/4 in) obtuse and denticulate or "obscurely denticulate" vulgate tip; the upper pair apparently opp. Stipules dilate ovate, veined green, ending in long subulate ciliate point. Heads terminal on branches with peduncles 1/4-1 in long. Some head are involucrate with a few narrow, inconspicuous

bracts, no longer than calices; other heads have no bracts. Heads globular to short ovate, about 2 cm x 2 cm when in flower. Fls. sessile. Calyx softly pubescent, whitish at base, green at top; tube very thick, with rather sparse ring of hairs at the slightly colored throat inside. Teeth subulate, almost equal, erect in fr. Fl 10-13 mm overall, the calyx being 5-6 mm overall into tube of about 3 mm. Corolla creamy white, turning more yellowish, not reflexed, cottony fade. Capsule included, thin papery, ~~ovate~~ containing 1 yellowish seed, 2.5 mm long, ovate.

8-3-32 Pulicaria sicula Moris Knt II 464, Bar 255, Coste II 316 = Inula — L. Bon 170 Bord Rd Colden Rabassa — Arenal Noticed only in this one place today.

8-3-32 Panicum miliaceum L. Bar 487, Bon 352, A 104, BM & CP 108, Coste III 549 Fl. Cultd Rd Colden Rabassa — Arenal.

8-3-32 Amarantus Blitum L. Knt 445 = A. — L var sylvestris Bar 392 = A. angustifolius Lam Syn II 212, part = A. silvestris L. Coste III 173 and poss = A mitis L. Bon 365 but not A viridis L. A 372 Fl v fr. Field near Los Angeles (near Arenal)

8-3-32 Sueda maritima Dum Kuk I 448. Bad. Bon 270, BvH 385, Coste III 192. G 370 Fl. R'l Collden Rabassa Arenal at bridge over a drainage torrents. Carefully sifted with S. fruticosa Forsk which is much more common in vicinity. Some 1 to 2 on main st. 4.5 cm long Stigmas Styles distinctly 2.

788
8-3-32 ? Statice lychnidifolia Bis (see 7-30-32) Fl. Sands Arenal-Can Pastilla. Same as 7-30-32

789
8-3-32 Statice virgata Willd Fl. Common in torrents just beyond Carlanat Arenal. See Kuk II 376 9, Bar 387-8 v 386, Bon 263, Coste III 162

8-3-32 Pancratium maritimum L (See 7-4-32) Fl. Arenal. A fine show. [9-6-32 Rosa reports it abil in fl at San Summit. Serrera.]

8-16-32 Crithmum maritimum L. Kuk 251, Bar 201, Bon 128, BvH 200, Coste II 185 Fl. Bellver Castle Not abundant growing in wall near tablet to Lacy. Note that just at Castle are found several things usually found on shore.

9-2-32 Ocimum Basilicum L. BM & CP 6461
(See Kn I 59 = Alfábega in Mallorca) Fl & fr. Brought by Rosa from a house where cultivated. Easily recognized by the broad bell-like upper lip of calyx & corolla & lower lobe deeply cut from the rest of the corolla & declined stamens declined.

9-6-32 Satureia hortensis L. BM & CP 652, Bar 359, Bon 249, H 705, Coste III 91 Fl & fr. Cult. Brought by Rosa from garden in San Servera. Calyx teeth not as acute as ill (Coste) & plant less densely pubescent than suggested by BM & CP. & Bon (See 9-8-34)

9-6-32 Vitex Agnus Castus L. Kn II 312, Bar 375, Bon 258, Coste III 140, BM & CP 632 Fl & immature fr. Brought by Rosa from beach near San Servera.
A Fls def. blue-lilac inside
B Fls very pale pink inside

9-6-32 Tamarix gallica L. Kn II 191, Bar 173, Bon 107, Bolle 87, BM & CP 506, Coste I 280 Fl. Brought by Rosa from beach near San Servera. Cannot be T. africana since stamens def. 4-petalled and bracts no broad white border (See Coste). But as disk has 5 acute

9-6-32 acute angles (see Coste, BMJCF and ill Bon) which bear the stamens this may be T. angelica Webb

790

9-6-32 Astragalus baeticus L. Kn II 105. Bar 133. Bon 82. Coste I 365. Hoffsgg. Cult. Brought by Rosa from her father's garden in San Servera (See 3-6-31)

791

9-6-32 Arachis hypogea L. BMJCF 394. Hoffsgg. Cult. Brought by Rosa from garden in San Servera.

9-6-32 Eragrostis megastachya Link. Kn I 314 Bar 500, 1150 = E. major Host. Coste II 647 v pub = E. vulgaris Ors v Heuff Bon 363 Fl. Brought by Rosa from water course behind her father's house in San Servera. Lemma thin, white with 3 green veins.

792

9-12-32 Tenerium Polium L. var Polium (see 5-29-32) Fl Alcudia Albufera. Like 5-29-32 in the hairs on each calyx lobe, but plant less densely woolly & lvs broader & less revolute than that is remembered.

9-12-32 Citrullus vulgaris Schrad BMQCP 736 = Cucumus Citrullus L. (See Kn I 61) = Cucurbita Citrullus L Bar 176. Fl & fr. Alcudia Albufera. Liberally escaped on the sands. This is undoubtedly the Cucurbitaceae of 11-5-30 found in similar quantity at Pallenza.

9-12-32 Zizyphus Jujuba. Mill BMQCP 475 = Z. vulgaris Lam Bar 98, Bon 64. See Kn I 56 & 65. Fr. Cult. Alcudia near Roman Theatre. Distinguishable by its shining 3-nerved lvs, alt on the flexuous branches.

798

9-12-32 ??? Erythraea Centaurium Pers. Kn II 284, Bar 313, Bon 213, BvH 312, Coste II 554 = Centaurium umbellatum Gilib. 1656. Fl & fr. Alcudia Puerto on road to bathing beach. Is not this the E. latifolia Sm.

9-12-32 Soncbus maritimus L. Kn II 540, Bar 287, Bon 187, Coste II 436 Fl. Alcudia Puerto towards bathing beach.

9-12-32 Atriplex hastatum L. Kn I 440 = A. hastata L. Bar 395, Bon 267, BvH 391 & II 505-287, Coste III 178 = A. patula L. var hastata Gray & 368 Fl. Alcudia Puerto. Joquen from 2 slope. Lvs which are hastate to triangular. Details can not be visible to eye.

793 A

9-12-32 ?? Artemisia gallica Willd Kn III 478, Bar 2444 FlVH 251, Coste II 334 Bund. Alcudia Puerto towards bathing beach.

9-12-32 Heliantheumum halimifolium Willd. Kn III 200 Coste I 148 = Halimium — Willk Bar 45 Fl. Albufera 20. J Alcudia just beyond point where left hand (pervots) rid passes thro' clumps J trees. Stalks very pale green & (20×) covered with pale stellate scales but not velvety. Leaves to 35×10 mm. Sometimes there is slight indication J a very linear 4th sepal.

9-12-32 Arachis hypogea L. BMJ C.P 394. Sterile fl. Cult field bet. Puerto & Alcudia. Sterile fls plentiful & also the "stout recurving stipes" J fertile fls but no fertile fls as yet developed.

9-12-32 Sorghum vulgare Pers [See Kn I 47] Coste III 358, Bon. 353 = Holcus Sorghum L. BMJ CP 105. Immature. Straw in field J maize in Albufera Alcudia. In fertile fls the coriaceous glumes are almost black but greenish at tip & with long hairs exp towards tip. Lemma thin & fragile with twisted awn that protrudes as long again as glumes (awn often missing perhaps broken off) Infl 8 in long, heavy & thick looking almost black. Of the sterile fls nothing now left but a few which look like empty glumes. Rachis & branches pubescent. Div (upper part J plant) to 2 in wide, tapering to very

accuminate typ.

9-12-32 Atriplex portulacoides L. Kn I 441, Bar 395, BnH 390, Coste III 176 = Alborea — Mog. Bon 269 Fl v very young fr. Alcudia Puerto.

9-13-32 Asparagus albus L. Kn I 380, Bar 442, Coste II 355. Fl Alcudia v elsewhere. Often the pencilled very thickly flowered v making a fine show. Honey-sweet.

794

9-12-32 Linaria cirrhosa Hoffsg. & Link (See 5-29-32) Fl v Fr Alcudia Albufera. More than one specimen seen.

9-15-32 Chlorophytum

See C. elatum R. Br. BM 2 CP. 174 and C. comosum Bak Kn I 48 Fl & Fr. Cult in pot Deyá & S. (same as 12-13-30 at Soller) Fls white 18mm across, the 3 petals petal-base, rotate, the 3 inner rather broader than the others v all with suggestion of greenish stripe on back. Filaments only just shorter than perianth v (20×) papillose. Anthers fixed at base v erect, open on inside; pollen bright yellow. Style simple. The thick roots enlarge into long, slender white tubers. Scapes arise from axils of lvs in clump from basal rosette (or tuft). These lvs to 2 cm wide, somewhat narrowed above the breathing space but not "petiole-like" lvs not white margin as 12-13-30

9-16-32 Laserpitium gallicum C. Bauh
Tordylium baldaricum Pers.
Orlaya balearica L.

9-16-32 Centaurea intybacea Lam Kn II 498, Bar 267, Coste II 393, Bon 180 Fl v fr. R'side just north of Ca'n Batlle tower north of Establiments. Quite late. Early found v fruiting heads show no good seeds. Seeds show no "manchas negras" (Bar) v very indefinitely "4 dents dont une bien plus grande" (Coste)

795
9-16-32 Potentilla caulescens L. var genuina Th Wf (See 5-15-32) Galatzó. Fr v l bud

796
9-16-32 Pimpinella Tragium Vill var balearica Knoche (See 7-20-32) Fr. Galatzó. Also fl seen but not col by R.B.K.

797
9-16-32 ? Lactuca saligna L. Kn II 532 (Bar). Bon 187 Bolt. 272, G 866, Coste II 431 Fr. Path up Galatzó just shortly above the point where it takes off E. Establiments r'd shortly south of E. Slender twiggy plant almost flat on ground, much branched from base. Achene 4 x 1 mm (L. tenerrima Pour has achene 4 x 1.7 mm) with vertical ribs showing. Pappus bright white (L. tenerrima has pappus yellowish) Cfd with L. tenerrima Pour found near same spot.

9-16-32 Scutellaria balearica Bale (See 3-25-32) Remains of fr. Galatzó upper part of path.

9-16-32 Merendera filifolia Camb. (See 3-2-32) Fl Galatzó

9-16-32 Crocus minimus DC. forma Cambessedesii Knoche Kn I 390 = C. Cambessedesii Gay Bar 449, Willk Ill II 79. Tab LIII (See C. minimus DC. Costa I 361) Fl. Galatzó

9-21-32? Cassia Corymbosa Lam. BMQC.P 424. Fl Cult. Infanta. Undoubtedly C. and prob. this

798

9-22-32 Cephalaria rigida Schrad var balearica Kn. (See 6-28-32) Fl fr. Puig Mayor. Common on cliffs in path Dove Springs. Corolla white: anthers white & dehiscent. Alvs often 3 cm or more wide (Bar. to contrary)

799

9-22-32 Thymus Serpyllum L var Richardii Knoche Kn II 354 = T. Richardii Pers. Bar 358 Fl. Puig Mayor Pathway the Dove Springs in rocks at 2nd Satyrium station.

800

9-22-32 Hypericum balearicum L. Kn II 184, Bar 86 Fr. Puig Mayor.

9-22-32 Xeranthemum inapertum Mill. (See 6-8-32) Empty fruiting heads. Puig Mayor.

801

9-22-32 Bupleurum fruticescens L var Barceloi Kuntze (See 6-28-32) Unripe fr. Puig Mayor. Frequent on cliffs with the Cephalaria.

9-22-32 Anthyllis Vulneraria L var balearica (See 6-3-32) Puig Mayor. Plants (few only) seen with no fl's or fr. and none collected on cliffs with Bupleurum just above the lower of the stone structures (tanks like)

9-22-32 Scutellaria balearica Barc (See 8-23-32) No fl or fr. A few plants observed, not collected, in cracks of rocks at the Dove's Springs.

9-22-32 Potentilla caulescens L var gemmata Wulf (See 5-15-32) Fr. Many plants observed with Cephalaria on cliffs.

9-22-32 Brassica balearica Pers (See 5-15-32) No fl's or fr. On cliffs with Cephalaria.

9-22-32 Sorbia Aria Crantz (See 6-4-32) Fr
Observed but not collected on cliffs with Cephalaria

802
9-22-32 Arenaria grandiflora L. var. micrasantha Cosson
(See 6-4-32) Old fr. with the thymus.

9-22-32 Helianthemum polifolium Pers var. virgatum
Nyon (See 6-4-32) Remains of fruiting fellin Collecting
Puig Mayor at top of divide where path begins to skirt around
Puig Menor.

803 (Sent to Mrs K 11-11-32)
9-22-32 Cirsium lanceolatum Scop var. [illegible]
Knoche (See 6-10-32) Fr. Puig Mayor near Helianthemum
Looks much like ill Walk. v general effect not unlike all Cata.

9-22-32 Lactuca tenerrima Pour (See 6-25-32) Fl & fr
Path up Puig Mayor scattered but not rare. Plant less showy
than those Col. 6-25-32 and 7-14-32.

804
9-22-32 ? Vincetoxicum nigrum Moench (See
5-15-32) Puig Mayor on path up cone. Kept to compare
with V. officinale Moench forma apodum. if ever
found.

9-25-32 Boussingaultia baselloides HBK BM & CP 261 Fl & immat fr. Cult. Terreno Exactly as desc. except that the lobes of corolla are not "cloned" but flatly rotate tho' at the base (where the lobes are "somewhat united") the corolla partly closes over the young fr. Tho tubercles in axils of lvs (as collected) at tops of stems. Racemes to 5 in long. Each pedicel bract subtended by subulate bract about ½ as long as pedicel. And pedicel terminates in 2 broadly ∆ bracts immediately under calyx. The 2 sepals similar to corolla lobes

9-28-32 Inula viscosa Ait Kn II 461, Bar 253, Bon 171, Coste II 314 Fl Menorca - Cas Catalá.

9-28-32 Inula Conyza DC. Kn II 463, Bar 253 Bon 170, Bon 243 Coste II 314 Fl & fr. Col by Mrs. Kennedy Son Sawat, Valldemosa.

9-28-32 Inula graveolens Desf. Kn II 464, Bar 253, Bon 170, Coste II 314 Fl. Menorca - Cas Catalá.

805

9-28-32 Conyza ambigua DC. Kn II 448, Bar 288; Coste 292 See E. crispa Pours Bon 161 Fl & fr. Menorca - Cas Catalá.

806

9-28-32 Andropogon contortus L. (Kn) (Bar) Coste III 556 = A. Allionii DC. Bon 353 Fl. San Augustin on flat just back of Mrs Miskets house. Fl with A. hirtum.

P 809

9-30-32 Narcissus serotinus L. Kn I 386 Coste III 381 = N. — Clus Bar 452. Fl Bellver (Has been in fl since 9-15-32)

P 818 (Returned to Mrs K)

10-1-32 Cyperus fuscus L. Kn I 340. (Bar), Bon 324, BM 495, G 170, Coste III 461 Fl. Sent by Mrs Kennedy "by the opening of the ORITS, Valldemosa". Plant 15-18 cm over all, many sts from fibrous root. Infl about 1 cm high, ovate, spirally disposed lvs the longest of which 5 to 10 cm long. Sealed with green stripe down back the sides being thin & ranging in color from white to brown. [10-31-32 Fr from Mrs. K from same spot]

809 (Ret to Mrs. K)

10-2-32 ??? Senecio Rodriguezii Willk (Sec 7-30-32) Lf only Col by Mrs. Kennedy "on Fontanellas, Wodonan's road" above Son Gual.

10-6-32 Sternbergia lutea Gawl in Schult Kn I 386. Bon 305 = S — Roem & Schult BM 1CP 177 = S. — Ker Coste III 375 = Operanthus luteus, Herb Bar 450 Fl. Porto-Pi 2 clumps just east of 3rd bit tennis court & fort. perhaps escaped from garden where cultivated on road toward Porto-Pi.

812

10-6-32 Chenopodium opulifolium Schrad Kn I 439 (Bar) Bon 269, Coste III 186 Fr & fl. Porto-Pi Rd from tram end to port

811

10-6-32 Sonchus spinosus DC. forma decrescens (See 5-5-32) Fl. (evidently last of season) Porto-Pi

812

10-6-32 ? Amaranthus paniculatus L. B.M.Q.C.P. 252 # 372, Coste III 172 (See Kuntze I 51) Fl. St more or less hairy (not unfrequently puberent, but certainly not "glabrous" B.M.Q.C.P.) Bracts (at least some) with such long slender tips that it is difficult to decide bet. this & A. hybridus L. var hypochondriacus. Incl more like Coste's ill of A. paniculatus than like ill in Rick 114 of A. hybridus. Similar plants noticed in various Tedeno gardens. [But cf with A. candatus 10-13-32 this seems likely to be a poorly developed plant of that species.] [But see 9-8-34 for reconsideration]

813

10-6-32 Andropogon Contortus L. (See 9-28-32) Porto-Pi west of fort

10-6-32 Crithmum maritimum L. (See 8-16-32) Fl & unripe fr. Porto-Pi in cracks of rock near shore about 2 in high and on north exposure of fort very luxuriant with stems a foot & more high. Rosa makes a pickle of sts & lvs by putting in vinegar & letting it stand a month before using.

10-8-32 Mentha
From Mrs. Kennedy "La Comuna" Valldemosa. Fl. Tiny plant 4 cm. high, with stiff woody, very slender creeping sts. Fls. have all the look of M. Pulegium (eff. with dried specimen) even to the slightly gibbous effect of corolla (with stamens seeming at one side) but general effect of plant quite different, being more like a tiny Thymus. Lvs never more than 5 mm & much darker green than M. P— and less def. nerved.

814
10-10-32? Polygonum aviculare L. Fr. Mrs Kennedy "Steps" Valldemosa. Lvs 8 X 1.7 mm. Sheathes bright white & very conspicuous (at least when sts are thickly leaf, longer than internodes. Fr 2 mm long, tapering at top & shorter than sheathes.

10-11-32? Lagenaria leucantha Rusby B.M.J.C.P. 995 & From Mrs Kennedy "Esporles Rd" from Valldemosa. (Only 8 in 3 at ent. St. Hitchcock softly pub. towards tips, not markedly sacid L of a dense B.M.J.C. 4½ in diam, softly pub. both sides, apiculate on margins. Calyx lobes consist of narrow erect teeth 4 mm high on a tube that otherwise would be truncate. Corolla 3½ in diam, cut almost to base in obovate lobes. Pistil & stem white (in 10½ turning brown & very veiny, pub. both sides, edges not quite entire esp at tips and the def. mid vein making the lobe apiculate. Fls solitary on peduncle of 3 cm,

10-12-32 Mirabilis Jalapa L. B.M.J.C.P. 225 Fl & fr. Cult From Mrs Kennedy Valldemosa

10-13-32 ? Malvaviscus arboreus Cav. B.M. & C.P. 489 (See Kunt. 56) Fl. & young fr. Cult. Shorb's Tea Room, Terreno. Large lvs. Cl. 2 in wide, ovate, not lobed, very shallowly cordate at base, acute to short-acuminate at tips, denticulate only slightly rough to touch but not velvety. Young parts of plant put. with the same stellate hairs on lvs.; no hairs on bud. Bracts 7-8, the tips outward-curved in bud but erect in fl. Corolla 1 in. long. Carpels 5. Calyx about 12 mm high & bracts about as long.

10-13-32 Amaranthus hybridus L. var hypochondriacus Bailey B.M. & C.P. 252, & 371 Fl. & fr. Cult. Shorb's Tea Room, Terreno. Infl. stiffly erect, its short lateral branches making it "clumpy"

10-13-32 Amaranthus caudatus L. Fl. & fr. B.M. & C.P. 252 Fl. & fr. Cult. & wandering in grounds where the road to Hotel Royal takes off of Calle 14 Abril. The heavy drooping primary & many drooping branches seem to make this sure. This seems the same as R. of 10-6-32 except much better developed [See 9-8-34 for reconsideration]

10-13-32 Datura Metel L. Bar. 331, Coste II 616, & 717. Fl. & fr. Cult. Shorb's Tea Room. Cfd with D. fastuosa. Of Dupuche & I seems no likelihood of its being D. metaloides Dunal of B.M. & C.P. 664 as calyx teeth are triangular as in D. fastuosa and corolla

very shallowly lobed at apex with no slender subulate teeth."]

815
10-13-32 Chenopodium opulifolium Schrad. Flv fr. (See 10-6-32) Rd near tennis courts Terreno

10-14-32 Calonyction aculeatum House BM&CP. 610 Fl. Cult in garden next east of Terreno Extranco. Lvs cordate.

10-14-32 Kochia scoparia Schrad. Bar 397, BM&CP 350, Coste III 188 Fl & fr. Cult. Brought by Rosa. Lvs 2 mm or less wide. Calyx lobes often winged as in all Coste [Seen frequently in gardens & later sent by Mrs Kennedy from Valldemosa garden under name of "Princes Feather"]

10-19-32 Sambucus Ebulus L. Ku II 429, Bar 216, Bon 197 Bol 215; Coste II 230 Fl. Sent by Mrs. Kennedy from Valldemosa [Seen by R.B. Kalong road south of Valldemosa 9-22-32]

10-25-32 Daucus gummifer Lam (Bee 7-30-32) Fr
From Mrs. Kennedy "In a grieta, Portalet" a. Valldemosa.
B&B same as 7-30-32.

10-27-32 Atriplex patula L. Kn I 440. = A. patula L.
Bar 395, Bon 267, BvH 391, H 368, Coste III 176 BvH 2d II 304
Unripe fr from
Mrs. Kennedy a. Valldemosa. Exactly as described by BvH 2d II 304.

10-30-32 Polygonum aviculare Kn I 436, Bar 404, Bon 274
BvH 398, H 358, Coste III 207, Fl & fr. Nemora. Long straggly
sts to 2½ ft. but size & achenes included in perianth
seem to negate any other possibility. Gfd with 10-10-32 which
is resembles not at all in general appearance.

11-1-32 Jasonia glutinosa DC. Kn II 471, Bar 253, Coste
II 316 Fl Fr. From Mrs. Kennedy "In a grieta Fontanelles,
Estate de Valldemosa" Exactly as desc. ex cept that
pappus is yellowish white (not "rousse" Coste) and
achenes are velvety with long white hairs
"velloso" (Bar) not "jaunâtres - - - très hispid"
(Coste) the many slender sts 4-6-8 in high, term-
inating in a solitary fl or in few fld. corymbs.
Outer bracts plainly visible

11-2-32 Polygonum serrulatum Lag (Key) (Cat) Coste #206. Bon 275 Fl & fr. Mrs. Kennedy Soller Puerto. Exactly as ill & desc (Coste). Spikes 4 Cm (or less) by 5 mm, looking very slender. All achenes examined 3-angled & shining brown with short, stout upward pointing hairs on edges (rough to touch) St. red. No glands of any sort.

11-2-32 Euphorbia platyphyllal. subsp pulcherrima (See 7-26-32) Fl & fr Mrs. Kennedy. Soller Puerto. Capsule more or less warty. Seeds with scattered low dot-warts def visible 20x and not esp. shining. Glands white hairy on back. Plant differs from all seen hitherto by R.B.K in that capsules are def. pub. with long white hairs.

11-2-32 Cyperus
Fl. & roots Col. Mrs Kennedy, Soller Puerto.
A. Pist. same as C. longus L forma tabling J 6-28-32 with which cfd
B. This not differing greatly has much the looks of C. rotundus (Coste) and may prove be that.

10-2-32 Atriplex hastatum L (See 9-12-32) Fl & fr. Mrs. Kennedy Soller. Puerto. Plant red in st. & bracts agrees with all Coste
VBVN Sill II.

[Mrs. K. reports that Kew after first thinking this a Rhamnus admits that it is a "Bladder Campion"]
R. oleoides L.

11-3-32 ? Silene Cucubalus ~~Wib~~ Wibel.
Noffa fr. From Mrs. Kennedy from Puig Mayor "very summit in stony ground." Short evidently flat ground, the gnarly stem 1 cm thick, branched. Old & bare branches have slight thorny effect. Lvs are found on younger shoots. Branches & lvs. opp. The young shoots still show at base the scales & buds from which they issued. Lower & oldest lvs have no sign of stipules, but base are joined with definite link (as in many plants of pink family) But note that just inside this line is sometimes found a pair (i.e. one or 2 to one pair of lvs) of small, veined members which might be deciduous stipules or bases since there are perhaps sometimes 4 might be ~~bracts~~ scales of the bud which continues the shoot. Lvs obovate to 15 × 6 or 7 mm wide, entire, rounded & mucronate at apex, narrowed at base into what might be considered a very short (1 mm) petiole. Lvs thin (not at all coriaceous), glabrous, gray-green, finely net veined with veins almost purplish on the lo. dry. Lvs (at 3.) close together at tips of the short twigs (as that bases overlap. Sep not mildly as spur as obtuse & lvs without odor. Could this possibly be ~~typus~~ S. cerea pyrenaica L. forma majorecensis Knuth Kn II. 431 Sec L. — L. Bar. 217. Costa II. 238.
[Later specimen which Mrs. Kennedy says

undoubtedly broken off from the plant in her box. These shoots mostly heliaceous. Largest lvs 23×9 mm. some with a roughened margin (see 246-31). Tips of shoots with 1 a more very tiny buds. These show tubular 5-toothed Calyx, 10 stamens and beginnings of petals apparently for Silenes. No ovary or style distinguishable. Very likely this is Silene Cucubalus Wib. known to be very common in the region. Note teeth of Calyx finely pubescent on edges.

11-4-32 Datura Stramonium L. Ku II 365, Bar 331, Bon 237; B&H 328, # 717, Coste II 616 Fr. from Mrs. Kennedy from Son Togores (Son Sardiña) "also at Soller Puerto 11-3-32" No sign of purple on stalks or veins of lvs (Seed Tabula L 11-5-30)

11-4-32 Datura suaveolens Humb & Bonpl B M & C P 665 Bar 331 Flor & cult From Mrs. Kennedy "Mill of Son Togores Son Sardiña"

11-4-32 Rumex Crispus L. Ku I 433, Bar 401, Bon 372, B&H 374, # 355, Coste III 200 Fr. No basal lvs. From Mrs. Kennedy "Es Coma" C. Valldemosa. St 1 m high, of which more than ½ bears fr. Lower verticils spaced. The upper 4½ in of infl dense. Valves 4-5 mm wide & about 4 mm high, entire, very veiny. Strains on valves "lance-ovoid attenuate". (see # 355 for R. elongatus) not "very plump with rounding ends.

11-5-32? Chrysanthemum Balsamita L. BMJCP 760. See #847 v KuI 62 Ald. fruit & fr poorly developed. From Mrs. Kennedy Valldemosa "In cultivated land Sa Comuna Plant about 4ft high". St. erect with light-colored ribs, conspicuous on lower part of st. Bet. the ribs on lower part v all around on upper part is a very fine pubescence. Lvs as desc. (BMJCP), the largest 3½ x 1½ in, with the same fine mossy pubescence, and with sessile glands (dots) visible 20x. Lvs when rubbed have sweet pungent odor*. Petioles often with a pair of tiny lf-like lobes at base; these lobes often toothed. Specimen as sent shows 1 lateral branch 6 in and one main st. with young branches appearing in axils of lvs. Heads are in small clusters at tip of branch (and of main st.) about 6 in number v probably were not more than ½ in diam. Heads (now withered) seem rayless. Disk flat v naked, achenes rubbed, with "small crown". Ident. prob. correct. * Minty smell.

11-7-32 Centaurea intybacea Lam (see 9-16-32) Ald fruiting heads with poorly developed fr. From Mrs. Kennedy "La Cobriá, Alquelia Blanca, near Buñola". The empty heads now closed at top v almost spherical, yellowish-straw color, with the ciliation of bracts inconspicu-

one or [illegible] (perhaps has been broken off)

11-7-32 Teucrium Polium L. var majoricum (See 5-29-32) (Old fruiting heads. From Mrs Kennedy with above. Seems just the same as the var. with long calyx and long flattish lvs found 6-25-32 and 7-20-32.

11-7-32 Lavatera maritima Gouan (See 4-27-32) Mrs. Kennedy reports it in fruit with the above. "A turning beyond Raxa on the way to Buñola. A squat modern tower-shaped building named Alqueria blanca, a finca, on the left hand side of the Palma-Soller road. There one may leave a car & get permission to walk about 10 min to La Hobrá, a precipitous scoop in the mts & a torrente beyond. Some of the usual endemics found."

11-[illegible]-32? Eleagnus pungens Thunb var. reflexa Rehd. BM CP. 529 Fl. Cult. From Mrs. Kennedy. "Garden of Sa Coma" Lvs leathery & persb. evergreen, margins hardly undulate, lvs green & smooth above but covered with faint dots like depressions visibly covered beneath with peltate scales making an effect of rust-brown on background of silver. Branches brown scaley; no spines. Perianth tube & lobes so scaley outside as to seem silvered with metalic paint Fls. fragrant, about 1 cm long." Makes a hedge

hedge & sprawls through the gardens. Sends out shoots 20 ft long or more"

11-17-32 Crocus sativus L. Bon 303, Coste III 360, BMJCP. 200. Fl. Cult. Mrs. Nisbet's garden. San Augustin. Styles fully equalling perianth and far overtopping the anthers. Perianth segs. purple to very base but pubescence on throat not descernible in fl. (withering when collected)

11-17-32 Gomphrena globosa L. BMJCP. 254. Fl. Cult. Mrs. Nisbet's garden. Fl heads bright cerise-purple & clover-like in appearance. Exactly as desc. except that the lvs have no more hairs on edges than on the surfaces. Receptacle woolly & each fl. subtended by a reasoning white bract which persists after fl falls. These bracts are ovate, broad based, acute to tapering, & cupped around the fl. 1/4-1/3 as long as fl. Each fl consists of 2 erect colored bracts about 11 mm high, strongly keeled & enclosing the other floral parts. Perianth hardly more than as long as these bracts, its 5 narrow linear, stiffly erect segs. tan colored at tips which is scarious & glabrous, but below tips on back are densely woolly with long white matted hairs (no mention of this in B.M.J.C.P.) Staminal tube as desc. BMJCP. Style deeply 2-cleft, shorter than staminal tube.

7-19
11-17-32 Celosia argentea L. BM ♀ CP 253. Fl vfr. Cult. Infanta 8. Infl an oblong spike (or the racemes looks like a spike because pedicels very short) silky white, hence very near to wild form. Each pedicel subtended at base by acuminate bract & fl with 2 similar bracts directly under the perianth. These bracts all shorter than perianth but similar in color and scarious texture. Filaments about ½ as high as perianth and united into a tube about ½ of their length. Style as long as perianth very slightly 2-parted at apex. Capsule opens like a pyx, with about 4 seed on basal placenta. Perianth segs. erect but the ripening capsule plainly visible. [At earlier date bought at market in Palma a specimen with infl magenta red (usual "cockscomb" color) and a rather loose panicle of with many short, slender spike-like racemes, loose & somewhat drooping forming a panicle. Each fl exactly like those in specimen from Infanta.]

11-19-32 Crocus minimus DC. forma Cambessedesii (see 9-16-32) Fl. west ♀ Cas Cadalá. Take shore path & instead ♀ climbing over wall, continue along on outside ♀ it. The crocus is blooming freely along wall & on the ridge to which it leads. Plants found also on shore path on the west side ♀ the 1st sort ♀ bay (before reaching the 2nd bay which has a beach & military bath houses. Note that stigmas

11-19-32 stigmas are laceratedat dip as dense (Bar) villi (Wallr.) not as dense villi (Coste) fr C. minimus? Spathe is def. bi-valved and tube exserted (in one case 7 cm.) Stigmas yellow.

11-23-32 Euphorbia segetalis L. (Sec 5-23-32) Flufs. Common in field bet Deanery & Corners and San Rafaina. Conspicuous by its broad spreading yellowish tops and (in many cases by young sterile shoots which droop at. below the umbel making a bushy green spot on landscape (but the pitted seeds and racemose perbante rule out any possible chance of its being E. Cyparissias L.)

12-27-32 ?? Glaux maritima L. Kn II 268, Bar 303, Bar 209 BUH 303, Rg 647, Coste II 583. Remains of plum from conditions from Mrs. Kennedy near Andraitx.

Bellis coerulescens Cos

In Aug. 1933 Kew gives E.W.K the following information. B. coerulescens (native) Morocco is a species distinct from B. annua.

B. coerulescens	B. annua
Spreading	Tufty
Lvs. spoon shaped	Lvs. like B perennis

As far as known up to March 1935 E.W.K. has not found what Kew would call B. annua

816

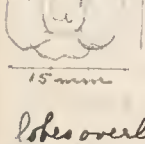
1-21-33 Bellis annua L

Fl. Bellover. Rays range from nearly pure white to definite lavender tinge. Some when dry turn blue [In 1932 Mrs. K showed Kew a plant whose rays had turned blue and was told it was B. coerulescens. On Bellis coerulea, but she does not know how this name relates to B. annua L.]

2-11-33 ? (Aronicum arboreum — "Hortus") = Senecio arboreum L. Kn I 53. Cult. Fl. of. garden of hotel near Estallimento. This is the plant with terminal rosette thick spatulate ciliate lvs. & runfl. of many bright yellow fls. Very commonly cult. in Mallorca.

[Mrs. K. a few days later found O. lutea nearer Andraitx.]

3-8-33 Ophrys lutea Cav. Kn I 409, Bar. 462, Bon. 313, Cate III. 389 Fl. San Telmo (near Andraitx) col by Mrs. Kennedy (cfl with O. fusca 4 links from Bellover 3-9-33)



Border (gamboge) yellow. 5 mm wide. Inside 3 mm has the brown & grey of fusca, the brown much narrower than in O. fusca. Effect of lip very square at base and round at ex. Kennedy, the lobes overlapping (no open sinuses as in O. fusca) the edge rather frilly & general effect of border is concave. Petals almost as yellow as border & tending to fulleness & slightly wider than in O. fusca. Note: Contis drawing of O. lutea is more like much fls of O. fusca as to shape of border lip. Gynostemium,

3-13-33 Laurus nobilis L. Kn III 3, Bar. 407, Bon 276 B.M.J.C.P 295, Coste III 315. Cult Sinaloa & Sonora fls. Stamens often branched as well in Coste.

3-14-33 Fumaria parviflora Lamk (Sec 4-4-32) Fl V unripe fr. west of Pato-Pi in full op. Malvinat. in company with F. micrantha Lag.

3-16-33 Gladiolus triatis L Kn I 49 Bailey's Hortus 277 Fl. Cult. Estancia Terreno. (Fl. studied 3-9-33 from fl brought by Mrs. Kennedy & lf &) today confirms identification). Lf. very deeply ribbed so as to look quadrangular (nos 4 in this space) and entirely unlike the usual flat sword-like lvs. Fls fragrant only at night. Seems to be locally known as "Lilio San José"

3-18-33 Triglochin bulbosum L. Kn I 283 = T. Barrelieri Lois Bon 464, Bon 313, Coste III 441. Fl Brought by Dr Lord from Alcudia. St 12 in with some lvs as long. Infl (now partly buds) 2½ in, with 24-30 fls (now dense at tip but rather lax at base). Carpels 6 styles always 3. Base enlarged & bulbish (but bulb is elongated & not abruptly contracted at top) No "tunique fibreuse entrelacée" (this must have been destroyed in collecting). Lvs (20×) marked with vertical dotted lines.

3-18-33 Corinthe

Fl Brought by Dr. Lord from Alcudia. Fl. See C. major L Ku II 308. Bon 220, Coste II 579, Hortus 138 and also C. retata Salisb v Sm BMQCP 627, Hortus 138. L v bracts v calyx lobes ciliate with short stiff upward pointing hairs. L v only slightly rough to touch when fresh but when dry seem much rougher and the tiny white tubercles very distinct. Bracts v corn calyces conspicuously dark glaucous purple. White petals glaucous. Corolla 16 mm long, yellowish at base only the rest purplish much like the bracts; teeth equilateral Δs 3.5 mm on side and (on specimen) convivent in cone at tip. Filaments 3 mm but points of attachment; anthers 5 mm long as to pollen bearing portion (i.e. disregarding tails of fully 1 mm and terminal tip of 1 mm.)

816A
Same plant v place as # 626. 3-18-33.

3-20-33

From Mrs K. Puerto de Andraitx. Fl. A tiny plant attached to bulb of Ophrys bombiflora. very slender v delicate, 5 cm high, perhaps rooting at base; glabrous. Lower 3/4 of stem naked but l/s scars seem sometimes opp v sometimes alt. L v ovate-lanceolate, the largest 6 x 3 mm on petiole 2 mm. L v thin, entire, penninerved v perhaps 3-veined at base. Fls seem solitary and almost sessile in axils. Only one (poor condition) to be studied. This was 1 mm high. This had tubular calyx with erect (or perhaps reflexed) linear

calabae paniculata (number not determined. Style pubescent with capitate stigma (about as high as calyx) stamens several (probably 6 or more) no petals found. A mere guess is Peplis Portula L. Coste #93, Bon 106, BVH 162.

3-20-33. Erodium Cicutarium Willd Kunth 130, Bas 83, Bon 58, Coste I 252 Fl v ado-fr. Bellvue just west of gate and E. malachioides L. on wall Calle Bellvue. Carefully eff. E.c - thro' pub. is a fresh clean green; E.m - is more densely pub. v a dusty-gray green. E.c - not glandular; E.m - glandular on calyx and in depressions of carpel also on st (especially upper part v (less def as) on young lvs. E.c - has sepals not 2 mm E.m has sepals not 1 mm. 2m E.c - the carpel slopes almost smoothly towards the beak; in E.m - the carpel has a depression on each side at top v ridge v a furrow below these depressions. E.c - has petals more brightly rosy than E.m - which has petals duller as whole plant is duller. E.c - has beak & seed about 3.5 cm; E.m - has beak about 2.5 cm.

These char. seem to def. plants more than size of lvs. tho E.c - does give general aspect of broader lvs. The lobing of lvs is very similar in the two species and like Coste in fl of E.c - #258. As for fertile stamens: there are a few sparse hairs on edges in E.c - but the same seems true of E.m -.

817

3-20-33 Silene apetala Willd.
Fl. Bellver Seems exactly like #630 & #651

3-21-32 ? Vicia hirsuta S.F. Gray Ku II 121, B & H 136, A 536 = V. —— Koch, Bon 87, Cost I 391 = Cracca minor Aem. Hede Bad 573. Fl. From Dr. Lond. Alcudia region. Appear 7 in. of plant only rem. All parts pubescent, unfolded les & calices look silky white to eye. St. def. ridged & tends to be twisted & zig-zag. St. pauled (esp. the upper ones) deeply toothed, not spotted. Lfts 6-8 pairs, oblong apiculate (because of pinched tip); the largest 12 x 3 mm. Lower tendrils simple or bifurcate; but the upper, branched & curling. Internodes of st. 15 mm & lfts begin almost at base of petiole so that plant looks well furnished. Les ½-2 in long; the rachis with lets about ⅛ in, with awn of 2 mm. Pedunc les evidently few fld (fls had fallen off before studied). Calyx 5 mm, cut half to bottom into subulate, equal teeth. Flowers all (of study) standard is straightish 7-8 mm. Standard pale lilac with darker veins, wings almost white, keel white with conspicuous dark purple tip. Style not quite glabrous at summit but with no def. tuft of hairs. Ovary now (one only examined) glabrous. Ovules few (perhaps 3).

818 Sent as #836 (with a piece of 4-33) to Kew. See report under that date.
3-21-33 Narcissus
Fl. From Dr. Lond, Alcudia region. Lf 19 in, scape 6 in (as sent, separate) Fls 2, differing from N. Tazetta

as usually found here in perianth being pure white (not creamy) Fl 33 mm. diam. acq. apiculate. Crown 4 mm high. clean yellow. subtrie (not as dense Coste for T. bifloros)

Scape hollow v 2 edged (Same as #826 v 828) "Found a real hundredth upon north face of cliff in shade v built of stem in cracks of rocks. Head rare in vicinity of La Victoria"

3-21-33 ??? Trifolium nigrescens Viv. Fl II 85, Bar 126, Bon 78, Coste I 344. Fl. From Dr Lad Alcudia. (Hort Col). Glabrous throughout. Stipules scarious, awl pointed. Plant looks very much like T. repens L. but pieces sent shows no sign of rooting. Piece as sent 9 in high. seems to have been erect v the axilary pedunculs are found to top of st. Head 15 mm diam; fls 8 mm long subtr (perhaps shaded badly descendable pink) very clean looking; none as yet reflexed. Pedicels 1-2 mm v Calyx 5 mm (Coste says should be equal). Ovules 5. St. with center rather soft v spongy. Perhaps T. repens L. after all.

3-21-33 ?? Melilotus messanensis All Fl II 76 Coste I 333 = M. — Desf Bar 120, Bon 76. Fl. Dr Lad from Alcudia. Infl Racemes 1/2 in in axil of lvs 1 2 in overall point to this as I don't as only one with racemes shorter than lf. Fls 5 mm long, the standard only just shorter than keel but wings def. still shorter. Calla a rich yellow. Pedunculs not unusually arrected v with or stipules not very def. Ovary pointed smooth

smooth & might develop to look like ill (Coste)

817

3-21-33 Silene gallica L. Kn I 464, Bar 59, Bon 43, BvH 65 (All. no help) # 385, Coste I 179 Fl & adv. fr. De Loud from Alcudia. St 20 cm high. St & lvs def. hairy; st has longish hairs in add. to the shorter pub. Calyx (in fl) tubular, gland-pub. with 10 red ribs. 9 mm high & which 3 mm is formed by the narrow teeth (ill Bon) Petals rose-red, hardly longer than calyx, entire The white scale 1.5 mm long & lobed almost to base (looks too large for the small petal.) Filaments of the longer stamens finely but def. pub. at base (20X) Anthers dark red. Calyx (in fr.) ovoid, not umbilic, contracted at top. Capsule 4 mm high, reaches almost to tips of calyx lobes. practically sessile. This ident. seems very satisfactory, but has not been compared with that of #643 which Kew reported as S. ? gallica L.

3-23-33 Romulea ramiflora Ten. Fl Mrs. K. Andrias

820

3-26-33 Linaria Chalepensis Mill Kn II 377, Bar 341, Bon, 233, Coste III 26 Fl. Firm Dr Loul. Alcudia. Exactly as desc. vill (Coste) except that corolla is so creamy as to be almost yellow and (excluding spur) is not over 6 mm long (i.e. shorter than the calyx which is fully 7 mm. The very slender spur is 8-11 mm.

3-28-33 Dolichos lablab L. BMJCP 399. Fl v unexpected.
Cult. Pretoria (Tevens). Note. 2 deciduous bracts at base of
each fl, looking at first glance like part of calyx. Wings
separate (or at least easily separable) from keel. (B. auro
"adnate") St. fls v pale deep purple. Style flattened
laterally, the upper edge thinner & hairy towards tip

821
3-29-33 Vicia gracilis
Fl. Dr. Lord Alcudia

822
3-29-33 Silene gallica (See #819 of 3-21-33)
Fl. Dr. Lord Alcudia

3-29-33 Wigandia
BMJCP 631, Notes 645, Kn I 59 Fl v 1 detached lf. Cult. From
Mrs K. from Raxa gardens. Lvs "alt". The one sent 6 x
3¼ in, oval, finely wavy-crenate, acute at apex;
base lobes rounded but is really slightly cordate
with lobes overlapping. Petiole ½ in. Upper side of lf,
glabrous, dark green, with lobes of finely grained
leather; underside pubescent & reddy-purple
as the lf is on the veins are brown and glandular
Fls sessile in terminal scorpioid cymes.
Pcl. & calices brown-glandl- pubescent.

3-29-33 pubescent. Calyx 5 lanceolate lobes (somewhat unequal) + softly pubescent inside. Corolla 5-6 lobes with 5-6 alt. stamens. Corolla purple (with tube lighter) more or less rusty at top & bud outside with fine pubescence. Stamens attached to tube. Filaments with conspic. down-pointing hairs. Ovary superior, seated on disk, pub. with upward pointing hairs. Styles two, purplish, slender, enlarged at top into green capitate stigma (Effect is like a very slender cornucopia) whose edges are inrolled. Ovary 1-celled with two parietal placenta, meeting in center & cells in such a way that it can easily be mistaken for two celled. Ovules many.

823

3-30-33 Senecio Rodriguezii Wilk Kuntze Bar 242. Fl. Fl. Dr. Lond. Alcudia.

824

4-2-33 Romulea parviflora Jan Bertoloni (see 3-3-32) Fl. Mrs. Harris, Cas Catalá. Per. white inside with purple veins, 8 mm high. The upper (i.e. inner) spatule valve thin & scarious. × Evidently the same species as 3-30-32 # 632 from Porto-Pi which Kew named R. Columnae Sebast & Mauri. × (neither peak nor dry does this show the regular parallel veins of the lower valve in 824 nor of the broad valves of # 825

825
4-2-33 Romulea ~~ramiflora~~ ramiflora Ten Kn I 394 (Bar) (Ben) Cat III 363
[sent to Mr. Heron]
andrisiy

Fl. Mrs. Harris. ~~Cav Catalo~~. Perianth 13-14 mm pinkish Spathe valves green & herbaceous (very narrow scarious margin) larger & more conspicuous than in above species. Upper ~~and lower~~ quite unlike the lower valve in above species.

[Seems same as plant from Mr. Heron. Portugal which he calls O. longicuspis L&B] ??

longicuspis
4-3-33 Orchis italica Poir Kn I 401 = O. ~~longicuspis~~ Links Bar 588. Fl. Dr. Lord Alcudia "Albufera". Agrees ~~in main~~ perfectly with desc (Bar) Sepals acuminate 12 mm high petals narrow & linear 6-7 mm high. Lateral lobes of lip very narrow (less than 1 mm) 7 mm long. Middle lobe of lip deeply divided (to 7 mm) into segments nearly as narrow as the lateral lobes. The "dentecate" between these segs. is linear (rather than "triangular") to 3 mm long. Spur 5 mm, ± terete & ~~somewhat~~ curved upward toward lip. But the thin white tracts of 3-4 mm are scalelike and only about 1/3 of the 15-18 mm ovary. Query could this be Orchis Simia Lamk Cat III 398, Bor 310, B & H 459 All II 347 ? Further makes it seem highly portable. Sepals rose pink (bright) with darker veins. Petals & lip only slightly paler. St. about 7-8 mm diam, cross sect much like B & H All II (in some places almost hollow) St 18 in high or so all, the inf now 3½ in high & 1½ in diam, dense. 12 lvs near base of st 3-4 in long, edges distinctly crispy wavy & tips mucronate. Fl very like all Cats & B & H II

see below.

See below.

4-3-33 orchis from Dr. Lond Alcudia "albufera".

Mrs. C.M. Kennedy sent Mr. Heron's plant from Portugal and 2 detached fls from Dr. Lodo plant to Kew and on 4-23-33 reports, quoting "the complete specimen from Portugal appears to be an extreme form of O. Fuchsii-fata Scop, approaching O. Simia Lamk in the formation of the lip. The two flowers from Majorca apparently belong to O. Simia Lamk. but I am afraid the material is insufficient for exact determination"

Narcissus

#818 } 3-21-33 } all collected by Dr. Lord on cliffs
#826 } 4-3-33 } near La Victoria, Alicudia
#828 } 4-3-33 } were sent to Kew as #826.

On June 13, 1938 Kew reports
"#826 is apparently N. Tazetta L. var. radiatus Knoche, which is perhaps the same as N. dubius Bonnet, a species of rather doubtful status."

Dr. Lord in the meantime sent plants to a horticultural friend, Clarence Elliott, Esq., Six Hills Nursery, STEVENAGE, HERTS, England who in turn consulted E. H. Bowles (who, Dr Lord quotes Capt. Munn, "is the biggest authority on the subject in England")
April 14, 1933, E. H Bowles writes from MYDDLETON HOUSE to Clarence Elliott, Esq. as follows
"I think you are right & your narcissus sample is canaliculatus unless it is Jordani Monspeliensis. I rather think they are one and the same."

#826 to Kew. See report below
4-3-33 Narcissus
Fl. Dr. Lord. In cliffs near "La Victoria" Alcudia ("same as #818".

#827 Kew on June 13, 33 reports "N. Tazetta L. more or less typical"
4-3-33 Narcissus
Fl. Dr. Lord. "Common N. Tazetta of plains" near Alcudia

828 #826 Kew on June 13, 33 reports "apparently
(4-3-33) Narcissus Tazetta L. var. radiatus Knoche
(Fl Dr. Lord. "Same as 826) which is perhaps the same as N. dubius Gouan, a species of rather doubtful status"

4-7-33 Chrysanthemum segetum L. Kn II 476, Bar 246, Bon 167, B VH 246, BM CP 759, B 847, Coste II 338. Fl. Ds Lord Alcudia. Carefully cfd with C. coronarium. Differs in bvo very obvious. Achenes of the 2 spec. exactly as desc ill (Bon). Note in C. segetum no achenes with lateral wings as desc ill (Coste)

839
4-11-33 Aristolochia Brandisii Kn I & B. Sm et Bm Kn I 427 III Tab XIII. (Bar) Fl. Col by Dr. Arnold Schultze at light house Puerto Pollensa. Exactly like ill Knoche. L 2½/3 mm overall. Fl 28 mm overall. The lip very dark purple brown for 5 mm, lower margin with 6 dark stripes. Edge hairy

530

V. odorata L

Vaf. amberbiana Knoche. Kn III 209 =

4-11-33 Viola Jamberbiana Merino Bar 568 Fl. Sent by Dr Lod. (collected by friends) from "Torrente de Pareyo" (prob upper part near Sach Blanc) Lvs. seem to make its identity plain

531

4-14-33 Reseda Rodrigueziana Willk. Flv fr. From Dr Lod from Alcudia.

4-14-33 Antirrhinum Majusk.

Very early bud. Dr. Lod at Sorch Blanc. Cfd with plant from garden Infanta C. See Bar. 337.

4-19-33 Celsia cretica L. (See 6-7-32) Fl. From Mrs Kennedy near Valldemosa. Mrs. K. reports several colonies.

4-19-33 Succowia balearica Medic Kn III 37 Bar 39, Corte I 138 Flv adv. fr. From Mrs. Kennedy at Son Gual (as one starts for Teix) Valldemosa.

5-6-33 Cephalanthera ensifolia Rich = C. longifolia Fritsch (see 6-8-32). Mrs C.M. Kennedy reports 4-23-33 of finding a plant in flower

5-6-33 flower in Son Gallart (i.e. Puig Gros - Vega Gorge) which she sent to Kew and 5-6-33 reports their identification as C. longifolia Pritch. She asked Kew if Knoche meant C. ensifolia was a synonym of C. grandiflora & they answer, yes he does "but this is erroneous"

5-16-33 Urtica pilulifera L. forma balearica Knoche Kn I 420 = U. — Ivar balearica Bar 434. (See U. — L. Bon. 284, Coste III 248. Col by E.W. Kennedy at Orient. (Dried spec. seen by R.B.K 3-18-35)

#832
5-16-33 Adarianta Buchanelli (See 5-16-34 where entered by mistake)

10-6-33 Muscari parviflorum Desf. Kn I 379, Bar 440 Col by E.W. Kennedy in fields along road leading from the Santa Maria Station (Palma - Sallet R.R.) towards Santa Maria (R.B.K saw spec. freshly dried) "Bartolomé says that the same flower, he thinks, grows on Teix and that partridges feed on its bulbs" (9-19-34 E.W.K. saw 1 plant on Bellver, near the castle on the path that ascends from the chapel)

865 A
8-19-34 Buxus balearica Lamk Kn II 165; Bar 431
Col by E.W.K Pollensa, Sierra de San Vicens. "many bushes"

865 B
3-5-34 Rhamnus ludovici Salvatoris Chodat
Col by E.W.K. Formentor (Cala Figuera)

3-31-34 ? Carex ambigua Link Kn I 350, Bon 332 = C. oedipostya Duval-Jouve Bar 480, Coste III 501. Col by E.W. Kennedy Formentor (Sola Colomé valley)
(6-5-34 Col by E.W.K Formentor near garage (Hotel) R.B.K. sees dried spec. 3-18-35 & considers this identical the only one possible acc. to Barcelo. Utricles slightly but surely pubescent.

865 C
4-4-34 Aristolochia Bianorii Sen & Pau Kn I 437 Col by E.W. Kennedy Formentor (Roca Blanca)

865 D
4-16-34 Buxus balearica Lamk (See 2-19-34) Col by E.W.K. Formentor (Roca Blanca)

865 E
4-16-34 Rhamnus Ludovici Salvatoris Chodat (See 3-5-34) Col by E.W.K. Formentor

865 F
4-26-34 Rhamnus Ludovici Salvatoris Chodat. Col by E.W.K Formentor

4-27-34 Chaenorrhinum rubrifolium Willkt L. var Bianorii Knoche Kn II 382. (See Linaria rubrifolia DC. Bar 341, Bon 233 and L. rubrifolia Rob. & Cast. Coste III 18) Fl. Col by E.W.K in Sand Pit at Formentor

4-22-34 Formentor. (Also in all stages on 5-8-34 and 5-24-34) (Dried spec. seen by R.B.K 3-18-35) Lvs. plainly show red beneath. Seeds are like Knoche's ill. of var.

866A
5-5-34 Aristolochia Bianorii Sen & Pau (See 4-4-34) Col by E.W.K. Formentor.

832
5-16-~~33~~34 Adarianta Bicknellii Knoche II 241 & IV Taf VII & VIII = (acc. to Kew) Spiroceratium Bicknellii Wolff. Fl. Col by E.W. Kennedy at Ariant.

875A
5-27-34 Aristolochia Bianorii Sen & Pau (See 4-4-34) Col. by E.W.K. Formentor (Roca Blanca 800 ft alt)

880A
6-28-34 Rhamnus Ludovici Salvatoris Chodat. (See 3-5-34) Col by E.W.K. Formentor

From Mr. Heron from Monte Estoril near Lisbon Portugal. These names are those given by Mr. Heron (see notes below)

1932 Romulea Bulbocodium	Coste III 362
March 1933.	
Narcissus Bulbocodium L.	Coste III 377
Tulipa australis Link	Coste III 205
Scilla monophyllos L.f.	
Ophrys lutea Cav.	Coste III 389
Anemone palmata L.	Coste I 41
Erica mediterranea	Coste II 511

March or very early April 1933.			
Orchis longicornis Link		×	Bar 588
Ophrys speculum Link	(?)	Mrs. C.M.K. & V.R.B.K. think these correct	Coste III 390
Ophrys tenthredinifera Willd	(?)		Coste III 391
Ophrys apifera	(?)	××	Coste III 390
Orchis laxiflora			Coste III 402
Ophrys fusca			Coste III 389
Cistus salviifolius L. (dried petals bright yellow)			Coste I 145
Cistus crispus L.			Coste I 144
Anthericum planifolium L.			Coste III 344

× Mrs. C.M. Kennedy sent plant to Kew and reports 4-23-33 quoting "the complete specimen from Portugal appears to be an extreme form of O. tridentata Scop approaching O. Simia.

Lamk in the formation of the life" Note: R.B.K. thought this the same as the Orlaia sent 4-3-33 by De Lord from Alcudia of which Mrs. K. reports, writing from Kew "The two flowers from Majorca apparently belong to O. Simia Lamk but I am afraid the material is insufficient for exact determination"

xx Mrs C.A. Kennedy sent this to Kew & reports 5-6-33 that they identify it as "O. Scolopax Cav."